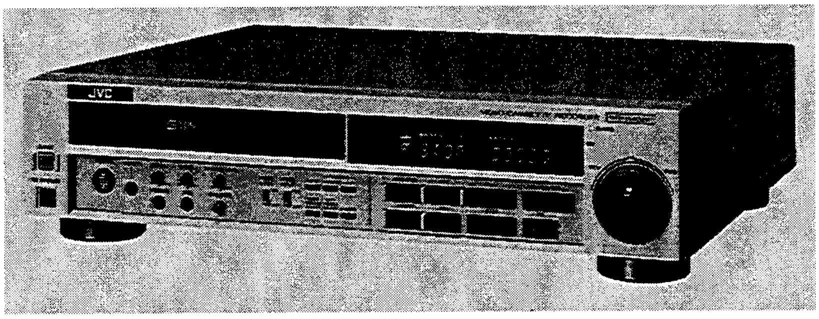
JVC

SERVICE MANUAL

VIDEO CASSETTE RECORDER

SR-S368E



Hi-Fi

NOTE : ***For items not included in this service manual, refer to the service manual (No.9286) for the SR-S360E.***

S VHS
625

SPECIFICATIONS

GENERAL

Power requirement : AC 220−240 V, 50/60 Hz
Power consumption : 19 W
Temperature
- Operating : 5°C to 40°C
- Storage : −20°C to 60°C

Humidity
- Operating : 35% to 80%
- Storage : 5% to 80%

Operating position : Horizontal only
Dimensions (W×H×D) : 435 × 107 × 362 mm
Weight : 6.5 kg
Format : VHS/S-VHS PAL standard
Tape width : 12.65 mm
Tape speed
- (SP) : 23.39 mm/s
- (LP) : 11.70 mm/s

Maximum recording time
- (SP) : 240 min.with E-240 video cassette
- (LP) : 480 min.with E-240 video cassette

VIDEO

Signal system : PAL-type colour signal/PAL-type Y/C signal
Recording system : Rotary two head helical scan system
- Luminance : FM recording
- Colour : Down-converted direct recording

Input
- Line : 1.0 Vp-p,75 ohms,unbalanced
- Y/C : Y : 1.0 Vp-p,75 ohms,unbalanced
- : C : 0.3 Vp-p,75 ohms,unbalanced (Burst)

Output
- Line : 1.0 Vp-p,75 ohms,unbalanced
- Y/C : Y : 1.0 Vp-p,75 ohms,unbalanced
- : C : 0.3 Vp-p,75 ohms,unbalanced (Burst)

Signal-to-noise ratio : 43 dB (Rohde & Schwartz noise meter)
Horizontal resolution : 400 lines (S-VHS)
: 240 lines (VHS)

AUDIO

Recording system : 2 Hi-Fi tracks/Monaural longitudinal track
Input
- Line : −8 dBs, more than 50 k-ohms, unbalanced
- Mic : −67 dBs, high impedance, unbalanced

Output
- Line : −8 dBs, less than 1 k-ohm, unbalanced (100 k-ohms, load)
- Phones : −∞ to −12 dBs, 8 ohms

Frequency response : 70 Hz to 10,000 Hz (Normal)
: 20 Hz to 20,000 Hz (Hi-Fi)
Dynamic range : More than 85 dB (Hi-Fi)
Wow & flutter : Less than 0.005% WRMS (Hi-Fi)

ACCESSORIES

Optional accessories : Wired remote control RM-G30U
: Editing controller RM-G800U
: Extension remote cable (for RM-G800U) VC-G8030U (3m)
: Y/C video cable

Specifications shown are in SP mode unless otherwise specified.
Design and specifications subject to change without notice.

No. 9291
March 1994

COPYRIGHT © 1994 VICTOR COMPANY OF JAPAN, LTD.

COMPARISON TABLE OF DIFFERENT PARTS & FUNCTION BY MODEL

The SR-S368E is based on the SR-S360E. The main differences are Packing/Cabinet parts and a part of board assemblies. In the event of after-sales service, refer to the Service manual (No. 9286) for the SR-S360E.

ITEM		SR-S360E	SR-S368E
Functions	Program Timer	Yes	No
	Editting Control	No	Yes
Options	EDITTING CONTROL UNIT : RM-G800U	No	Yes
Packing Parts	Packing Case	PRD39001	PRD39001-02
	Cushion Assy	PQ34503A-2	PRD30993A
	Instructions	PGD30002-435	PGD30002-444
	Accessory Assy	PQ21366X	No
	Remote Control Unit	PQ11237S	No
Cabinet Parts	Front Panel Assy	PQ11392S-15	PRD10309A-01
	Cassette Housing Door	PQ21414-5-3	PQ32853-24
	Torsion Spring	PQ45707	PQ43772
	Rating Label	PRD30085-31	PRD30085-32
	Serial No. Plate	No	PQ40111-1-5
	Label (MADE IN JAPAN)	PU54559-2	No
Chassis	Bottom Chassis	PQ10995-3-12	PQ10995-1-12
	Cassette Housing Assy	PUS29499D	PUS29499A
Board Assemblies	Switching Regulator Board Assy <01> <02> <18>	PB10565P	PB10565Q
	A/S/M Board Assy <04>	PB10703G1	PB10703H1
	IC601 Mechacon CPU	M37525M4-120SP	M37525M4-121SP
	Video Interface Board Assy <10>	PB10694E	PB10694F
	Timer Board Assy <20>	PRK29002A	No
	SW/Display Board Assy <28>	PB10695E	No
	SW/Jack Board Assy <37>	PB20598L	No
	Pause Terminal Board Assy <38>	PRK30117A	No
	Syscon Board Assy <20>	No	PRK10158A1
	FDP Board Assy <28>	No	PRK10158A2
	Jack/Remote Board Assy <37>	No	PRK10158A3
	Terminal Baord Assy <06>	No	PRK10158A4
	Sound Menu Board Assy <71>	PB10703A2	No
*1			

*Note : *1 Branch numbers of parts numbers are omitted.*

TABLE OF CONTENTS

Section Title Page

COMPARISON TABLE OF
DIFFERENT PARTS & FUNCTION BY MODEL
Important Safety Precautions
INSTRUCTIONS

1. DISASSEMBLY AND MECHANISM ADJUSTMENT

1.1.2 Front panel assembly .... 1 - 1
1.6 MEMORY (MENU) SWITCHES .... 1 - 2
1.6.1 User's menu (On-screen menu) .... 1 - 2
1.6.2 Service menu .... 1 - 2
1.6.3 How to reset the Menu switches to the factory setting .... 1 - 2
1.6.4 Hour meter display (resetable) ..... 1 - 3
1.6.5 How to reset the hour meter .... 1 - 3
1.6.6 Hour meter display (unresetable) ... 1 - 3
1.6.7 ROM version display .... 1 - 3
1.6.8 Repeat mode .... 1 - 4

2. ELECTRICAL ADJUSTMENT

2.1 ITEM OF THE ADJUSTMENT .... 2 - 1
2.2 SWITCHING REGULATOR CIRCUIT .... 2 - 2
2.3 SERVO CIRCUIT .... 2 - 2
2.5 AUDIO CIRCUIT .... 2 - 3

3. CHARTS AND DIAGRAMS

3.1 CIRCUIT BOARD LOCATION .... 3 - 1
3.2 CIRCUIT BOARD LOCATIONS .... 3 - 2
3.3 BOARD INTERCONNECTION .... 3 - 3
3.4 POWER SYSTEM BLOCK DIAGRAM .... 3 - 4
3.7 SWITCHING REGURATOR, REGURATOR(1) AND (2) SCHEMATIC DIAGRAMS .... 3 - 5
3.10 AUDIO SW SCHEMATIC DIAGRAM .... 3 - 6
3.11 MECHACON SCHEMATIC DIAGRAM .... 3 - 7
Section Title Page
3.17 VIDEO INTERFACE SCHEMATIC DIAGRAM ... 3 - 8
3.26 JACK/REMOTE, TERMINAL SCHEMATIC DIAGRAM .... 3 - 9
3.27 JACK/REMOTE, TERMINAL CIRCUIT BOARD ... 3 - 9
3.28 SYSCON, FDP SCHEMATIC DIAGRAMS .... 3 -10
3.29 SYSCON, FDP CIRCUIT BOARD .... 3 -11

4. EXPLODED VIEWS AND PARTS LIST

4.1 PACKING ASSEMBLY <M1> .... 4 - 1
4.2 CABINET ASSEMBLY <M2> .... 4 - 2
4.3 CHASSIS ASSEMBLY <M3> .... 4 - 4
4.4 MECHANISM ASSEMBLY <M4> .... 4 - 6

5. ELECTRICAL PARTS LIST

SWITCHING REGULATOR BOARD ASSY<01><02><18> . 5 - 2
A/S/M BOARD ASSY<04> .... 5 - 4
VIDEO UNIT BOARD ASSY<05> .... 5 - 7
TERMINAL BOARD ASSY<06> .... 5 -11
AUDIO UNIT BOARD ASSY<09> .... 5 -11
VIDEO INTERFACE BOARD ASSY<10> .... 5 -13
AUDIO/CTL HEAD BOARD ASSY<12> .... 5 -19
SYSCON BOARD ASSY<20> .... 5 -19
FDP BOARD ASSY<28> .... 5 -20
JACK BOARD ASSY<36> .... 5 -21
JACK/REMOTE BOARD ASSY<37> .... 5 -21
PRE AMP BOARD ASSY<42> .... 5 -21
REC AMP BOARD ASSY<43> .... 5 -22
FLYING ERASE BOARD ASSY<46> .... 5 -25
DECK TERMINAL BOARD ASSY<51> .... 5 -25
LOADING MDA BOARD ASSY<55> .... 5 -26
CASSETTE HOUSING BOARD ASSY<56> .... 5 -26
PRIMARY BOARD ASSY<60> . ... 5 -26
UPPER DRUM BOARD ASSY<62><63> .... 5 -26

Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

● Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded (▨) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers
   4) Insulation sheets for transistors
   5) Barrier

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

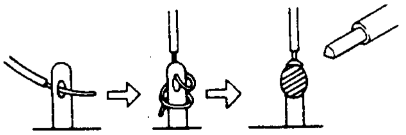


Fig. 1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10–15 kg of force in any direction will not loosen it.

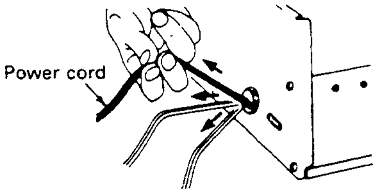


Fig. 2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.
    1) **Connector part number** : E03830-001
    2) **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
    3) **Replacement procedure**
       (1) Remove the old connector by cutting the wires at a point close to the connector.
       Important : Do not reuse a connector (discard it).

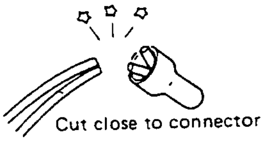


Fig. 3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

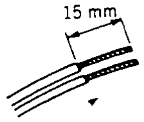


Fig. 4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

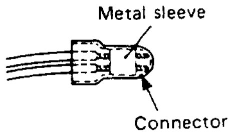


Fig. 5

(4) As shown in Fig. 6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

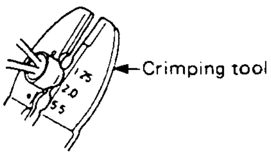


Fig. 6

(5) Check the four points noted in Fig. 7.

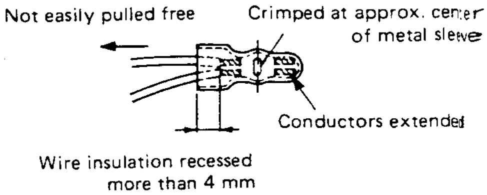

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig. 7

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. **Insulation resistance test**
   Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. **Dielectric strength test**
   Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. **Clearance distance**
   When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

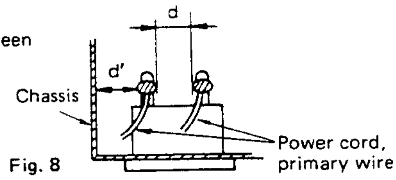


Fig. 8

4. **Leakage current test**
   Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
   Measuring Method: (Power ON)
   Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

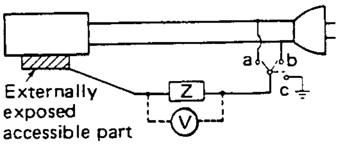


Fig. 9

5. **Grounding (Class I model only)**
   Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).
   Measuring Method:
   Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

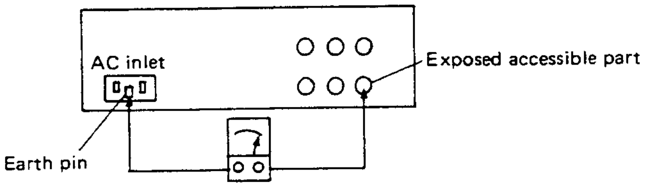


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 minute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	–	AC 900 V 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ /500 V DC	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

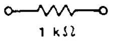
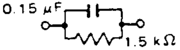
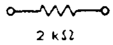
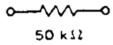
AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	 1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	 0.15 µF 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	 2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		 50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SAFETY PRECAUTIONS

Warning Notice
FOR YOUR SAFETY (Australia)

1. Insert this plug only into effectively earthed three-pin power outlet.
2. If any doubt exists regarding the earthing, consult a qualified electrician.
3. Extension cord, if used, must be three-core correctly wired.

IMPORTANT (In the United Kingdom)
Mains Supply (AC 240 V ∿)
WARNING – THIS APPARATUS
MUST BE EARTHED

The wires in this mains lead are coloured in accordance with the following code;

GREEN-and-YELLOW:	EARTH
BLUE:	NEUTRAL
BROWN:	LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the safety earth symbol ⏚ or coloured GREEN or GREEN-AND-YELLOW. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or which is coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

S VHS 625

- Cassettes marked "S-VHS" and "VHS" can be used with this videocassette recorder. However, S-VHS recordings are possible only with cassettes marked "S-VHS".

POWER SYSTEM
Connection to the mains supply
This unit operates on voltage of 220 to 240 V AC, 50/60 Hz.

This unit is produced to comply with Directives 76/889/EEC, 82/499/EEC, 87/308/EEC, and IEC Publ.65.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION
To prevent electric shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel.

Note:
The rating plate and the safety caution are on the rear of the unit.

COPYRIGHT © 1994 VICTOR COMPANY OF JAPAN, LTD.

Printed in Japan

CONTENTS

PRECAUTIONS *4*
VCR
Mode-Lock Function
Video Cassettes
FEATURES *5*
CONTROLS AND CONNECTORS
Front Panel *6*
Rear Panel *8*
DISPLAYS
Display Panel *9*
CTL Time Counter *10*
On-Screen Mode Display *10*
Hour Meter Display *11*
MENU SETTING
Operation *12*
Menu Settings *13*
CONNECTIONS
Video Signal *14*
Audio signal *15*
Connections For Editing Using
RM-G800U (Optional) *16*
HANDLING VIDEO CASSETTES *17*
Loading A Cassette
Unloading
Accidental Erasure Prevention
PLAYBACK
Preparation *18*
Basic Procedure *19*
Rewind And Fast-Forward *19*
Still And Frame Advance *19*
Shuttle Search *20*
Variable-Speed Search *20*
Tracking Control *21*
V.Lock Adjustment *21*
RECORDING
Preparation *22*
Hi-Fi Audio Recording Level
Adjustment *22*
Basic Procedure *23*
Insert Recording *24*
Audio Dubbing *25*
AUTOMATIC EDITING WITH
RM-G800U (Option) *26*
Preparation *27*
Procedures *28*
MESSAGES
Display Panel Messages *30*
Warning Messages *31*
TROUBLESHOOTING GUIDE *32*
SPECIFICATIONS *33*

PRECAUTIONS

VCR

- DO NOT use the recorder in places subject to any of the following conditions:
  - extreme heat, cold, or humidity,
  - dust,
  - near appliances generating strong magnetic fields,
  - vibrations, or
  - poor ventilation.
- Be careful of moisture condensation.
  DO NOT use the recorder immediately after moving it from a cold place to a warm place. As water vapour will condense on the still-cold video head drum and tape guides, immediate operation may damage the tape and the recorder.
- Handle the recorder carefully.
  - DO NOT block the ventilation openings.
  - DO NOT place anything heavy on the recorder.
  - DO NOT place liquids on the top cover of the recorder.
  - Use in horizontal (flat) position only.
- During transportation,
  - Avoid excessive shocks to the recorder during packing and transportation.
  - Before packing, be sure to remove the cassette from the recorder.

MODE-LOCK FUNCTION

- This recorder is equipped with a mode-lock function which disables control buttons, locking the VCR into the currently engaged mode.
- Set the MODE LOCK switch on the front panel to "ON". All operation controls (except setting switches) are disabled.

VIDEO CASSETTES

- This recorder uses S-VHS and VHS cassettes.
  S-VHS: SE-180 for 180 (SP) or 360 (LP) minutes of recording, SE-120 for 120 (SP) or 240 (LP) minutes, SE-90 for 90 (SP) or 180 (LP) minutes, SE-60 for 60 (SP) or 120 (LP) minutes, and SE-30 for 30 (SP) or 60 (LP) minutes.
  VHS: E-240 for 240 (SP) or 480 (LP) minutes of recording, E-180 for 180 (SP) or 360 (LP) minutes, E-120 for 120 (SP) or 240 (LP) minutes, E-90 for 90 (SP) or 180 (LP) minutes, E-60 for 60 (SP) or 120 (LP) minutes, and E-30 for 30 (SP) or 60 (LP) minutes.
- DO NOT expose the cassettes to direct sunlight. Keep them away from heaters.
- DO NOT expose the cassettes to extreme humidity, violent vibrations or shocks, strong magnetic fields (near a motor, transformer or magnet), or excessive dust.
- Place the cassettes in cassette cases and position vertically.

FEATURES

Easy-to-use editing recorder with high-quality S-VHS pictures and Hi-Fi audio sound
Easy to use and easy to set up, the SR-S368E provides high S-VHS picture quality with more than 400 lines of horizontal resolution for professional-looking results in editing and dubbing. To make sure you get the best possible results even in 2nd-generation tapes, we've added several new picture-improvement technologies to reduce noise and keep pictures clear and sharp. Audio capabilities are equally powerful with two channels of Hi-Fi audio for dynamic, near-digital stereo sound and an additional monaural channel for improved audio flexibility.

Jog/Shuttle search
Take advantage of the speed and accuracy of professional-standard search capabilities with the provided Jog/Shuttle controls. Locate a scene at high speed with the Shuttle dial, then pinpoint the exact frame you want with the Jog control. Ideal when you're preparing your edit list.

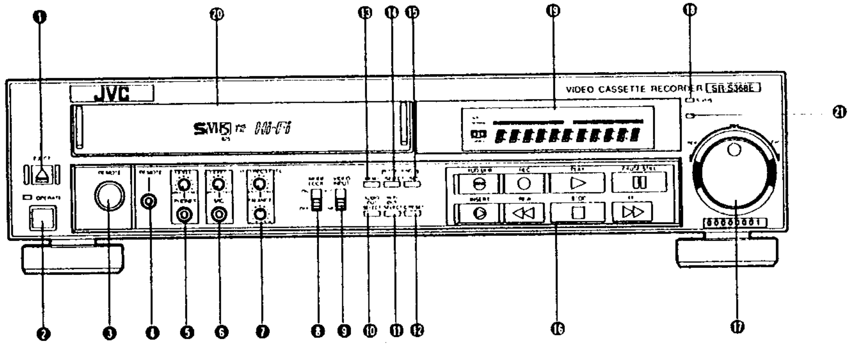
Cuts-only editing capability with RM-G800U (Optional)
Simply connect the SR-S368E and another deck to the RM-G800U Editing Controller (optional) via our newly developed Control Bus and you're ready to take advantage of a variety of editing features including automatic assemble and insert editing, review, and goto. Both decks can be operated from the RM-G800U for simple, fast, and accurate editing.

On-screen menu setup
The easy-to-use on-screen menu enables you to quickly specify all VCR mode and status settings. On-screen mode indications are also provided for no-mistake operation.

Other Features
- Picture-Improvement Technologies including Video Noise Reduction Circuit, Twin-Path Detail Enhancer, Dynamic Double Limiter, and Video Switching Noise Compensator
- Audio Dubbing
- Flying Erase Head
- Auto Head Cleaner
- Hi-Fi audio level controls and indicators
- Headphone terminal with volume control
- MIC terminal with level control
- Mode-lock function
- Automatic switching regulator for operation on 220 to 240 V AC

CONTROLS AND CONNECTORS

FRONT PANEL



① **EJECT button**
Ejects the cassette.

② **OPERATE button with LED indicator**
Turns the power on and the indicator lights.

③ **REMOTE connector**
Used for editing control. Connect to the optional editing controller RM-G800U.

④ **REMOTE connector**
Used for serial remote. Connect to the optional wired remote control RM-G30U.

⑤ **PHONES jack with LEVEL control**
[PHONES] Connect to a headphone (3.5 dia., stereo). Audio signal selected with the AUDIO OUT SELECT or Hi-Fi OUT SELECT button is output.
[LEVEL] Adjusts the level of the audio output from the PHONES jack.

⑥ **MIC jack with LEVEL control**
[MIC] Connect to a microphone (3.5 dia., monaural). When audio signals are input to both the MIC jack and AUDIO IN connectors, mixed audio is recorded. The audio signal is recorded on both the normal and Hi-Fi audio track.
[LEVEL] Adjusts the level of the microphone input.

⑦ **Hi-Fi audio recording controls**
[Hi-Fi REC LEVEL] Adjusts the Hi-Fi audio recording level.
[BALANCE] Adjusts the Hi-Fi audio balance when recording.

⑧ **MODE LOCK ON/OFF switch**
Set to ON to lock the VCR in its current mode and disable operation buttons and JOG/SHUTTLE controls.

⑨ **VIDEO INPUT select switch**
Selects the video signal input from the rear panel connectors
LINE: To select the composite video signal input to the rear panel LINE IN connector.
Y/C: To select the separate Y/C signal input to the rear panel Y/C IN connector.

⑩ **AUDIO OUT SELECT button**
Selects the soundtrack output from the AUDIO OUT, AUDIO MONITOR OUT, and PHONES connectors. The soundtrack changes from Hi-Fi → NORMAL → Hi-Fi+NORMAL → Hi-Fi .... each time the button is pressed. Selected mode is displayed on the display panel and the audio level meters change accordingly.

⑪ **Hi-Fi OUT SELECT button**
Selects the Hi-Fi audio channel when the Hi-Fi audio is selected with the AUDIO OUT SELECT button ⑩. The channel changes from Lch+Rch → Rch → Lch → Lch+Rch .... each time the button is pressed.

⑫ **C.RESET button**
Resets the CTL time counter to 0:00:00.

⑬ **MENU button**
Activates the Menu Set mode. Display panel and monitor screen change to the Menu Set mode. Press again to return to normal display.

⑭ **SELECT/+TRACKING button**
- Selects On-Screen Menu setting items.
- Adjusts tracking in playback or slow-motion. When pressed with the SET/–TRACKING button, tracking is set to the centre position.
- Adjusts V.Lock in still picture.

⑮ **SET/–TRACKING button**
- Sets On-Screen Menu data.
- Adjusts tracking in playback or slow-motion. When pressed with the SELECT/+TRACKING button, tracking is set to the centre position.
- Adjusts V.Lock in still picture.

⑯ **Operation buttons**
[AUD DUB]
- Engages Audio Dubbing on the normal audio track.
- Press together with the PAUSE/STILL button in the Still mode to engage the Audio Dubbing Pause mode. To start Audio Dubbing, press PLAY. To temporarily stop Audio Dubbing, press PAUSE/STILL. To re-start Audio Dubbing, press PLAY.

[REC]
- Starts recording when pressed together with the PLAY button. To temporarily stop recording, press the PAUSE/STILL button. To re-start recording, press the PLAY button.

[PLAY]
- Starts playback. To temporarily stop playback, press the PAUSE/STILL button.
- Re-starts normal playback when pressed in the Still or Search mode.
- Re-starts normal recording when pressed in the Record-Pause mode.

[PAUSE/STILL]
- Temporarily stops recording when pressed in the Record mode.
- Displays a still picture when pressed in the Play mode.
- Advances the frame when pressed in the Still mode (if the Still mode was engaged with the tape in forward).
- Reverses the frame when pressed in the Still mode (if the Still mode was engaged with the tape in reverse).

[INSERT]
- Used for insert recording. Press together with the PAUSE/STILL button in the Still mode to engage the Insert Recording Pause mode. Press the PLAY button to start insert recording. To temporarily stop insert editing, press the PAUSE/STILL button. To re-start insert recording, press the PLAY button.

[REW]
- Starts rewind when pressed in the Stop mode.
- Starts high-speed shuttle search at 9 times normal speed when pressed in the Play or Still mode.
- To cancel the Rewind mode midway, press any mode button. The VCR enters the mode corresponding to the button pressed.

[STOP]
- Stops the tape in any mode.

[FF]
- Starts fast-forward when pressed in the Stop mode.
- Starts high-speed shuttle search at 9 times normal speed when pressed in the Play or Still mode.
- To cancel the Fast-forward mode midway, press any mode button. The VCR enters the mode corresponding to the button pressed.

⑰ **JOG/SHUTTLE controls**
Used to locate the desired playback picture. Use the outer control (SHUTTLE ring) for variable-speed search and the inner control (JOG dial) for frame advance. The Jog or Shuttle mode can be entered from any mode except Record mode.
[SHUTTLE ring] Turn clockwise to search in the forward direction, and counterclockwise to search in the reverse direction. The further the dial is rotated, the faster the search speed. The speed changes gradually from 0.03 to 9 times normal speed. Releasing the dial produces a still picture.
[JOG dial] Turn clockwise for frame advance, and counterclockwise for frame reverse. Turning the dial slowly moves the picture one frame at a time. If you rotate the dial quickly, tape speed is about 0.17 times normal speed. Releasing the dial produces a still picture.

⑱ **S-VHS indicator**
- Lights when playing back a tape recorded in the S-VHS mode or when recording in the S-VHS mode.
- In modes other than Record, Play: Lights when an S-VHS tape is loaded with Menu item #100 "S-VHS SELECT" set to "AUTO".

⑲ **Display panel**
Indicates soundtrack, audio level meter, operation status, and time counter. See page 9 for details.

⑳ **Cassette loading slot**

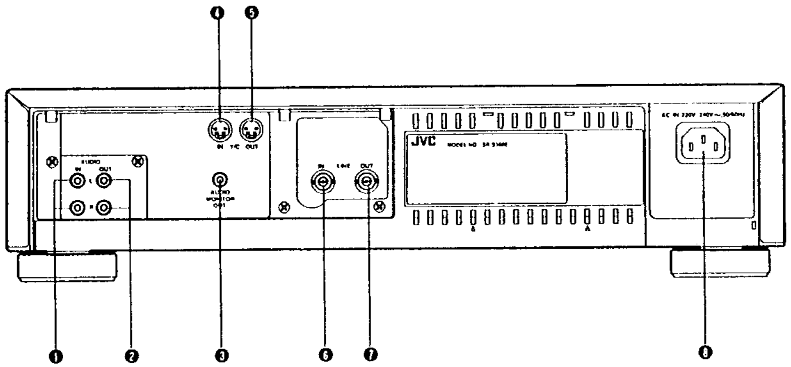
㉑ No effect on this VCR

MENU SETTING
In addition to switches on the front panel, the SR-S368E incorporates a variety of Setup Menu items for more flexible VCR setup. (☞p.12, MENU SETTING)

No.100 S-VHS SELECT ....AUTO/VHS
No.101 EDIT SELECT ....OFF/DUB/ENHANCED
No.200 Hi-Fi AUDIO REC ....ON/OFF
No.335 RECORDING MODE.........SP/LP
No.345 REPEAT MODE ....OFF/FULL
No.500 ON-SCREEN DISPLAY.....ON/OFF

CONTROLS AND CONNECTORS

REAR PANEL


④
⑤
①
②
③
⑥
⑦
⑧
JVC

① **AUDIO IN (L, R) connectors**

② **AUDIO OUT (L, R) connectors**
Output the audio signal selected with the front panel AUDIO OUT SELECT button.

③ **AUDIO MONITOR OUT connector**
Outputs the audio signal selected with the front panel AUDIO OUT SELECT and Hi-Fi OUT SELECT buttons.

④ **Y/C IN connector**
Accepts the Y/C 443 video signal.

⑤ **Y/C OUT connector**
Outputs the Y/C 443 video signal.

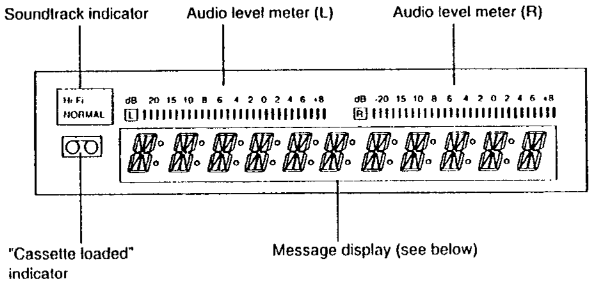
⑥ **LINE IN connector**
Accepts the composite video signal.

⑦ **LINE OUT connector**
Outputs the composite video signal.

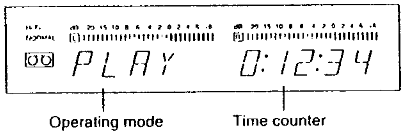
⑧ **AC IN connector**
Connect to AC 220 — 240 V, 50/60 Hz power outlet.

DISPLAYS

DISPLAY PANEL


Soundtrack indicator
Audio level meter (L)
Audio level meter (R)
"Cassette loaded" indicator
Message display (see below)
Hi-Fi
NORMAL
dB 20 15 10 8 6 4 2 0 2 4 6 +8
L
R

Message display
The SR-S368E's message display shows the VCR's current status including the operation mode and tape counter in hours, minutes, and seconds. It also displays the Menu settings, warning codes, and hour meter data.


PLAY
0:12:34
Operating mode
Time counter

Operating mode displays are shown below:

DISPLAY	MODE	DISPLAY	MODE
N.CAS	No cassette	REW	Rewind
STOP	Stop	FF	Fast-Forward
PLAY	Play	FWD	Forward Search
STIL	Still	REV	Reverse Search
REC	Record	EJCT	Eject
RC_P	Record-Pause		

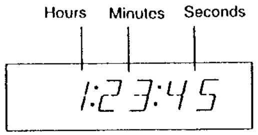
For a more comprehensive list, ☞p.30 "MESSAGES".

(Continued)

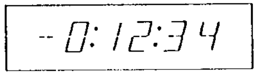
DISPLAYS

CTL TIME COUNTER

- Time counting is based on the recorded control signal. The counter does not function with non-recorded tape segments.
- The counter resets when the C.RESET button is pressed.
- The counter reading shows elapsed time from the "zero" position.


Hours
Minutes
Seconds
1:23:45

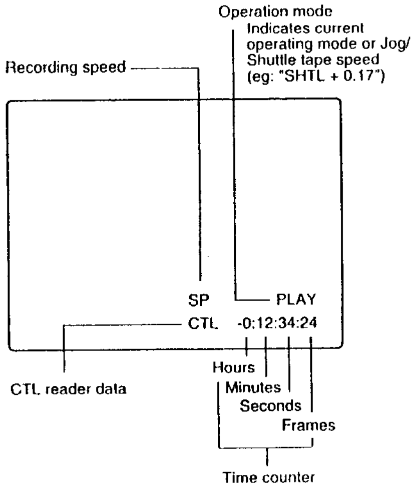
Forward direction (from the"zero" position)



Reverse direction (from the"zero" position)

ON-SCREEN MODE DISPLAY

VCR status is displayed on the monitor screen when Menu item #500 "ON SCREEN DISPLAY" is set to "ON [1]". Menu settings and warning code are also available on screen. (☞p.12, 31 for details) On-screen display can be output both from the LINE OUT and Y/C OUT connectors.


Operation mode
Indicates current operating mode or Jog/ Shuttle tape speed (eg: "SHTL + 0.17")
Recording speed
SP
PLAY
CTL
-0:12:34:24
CTL reader data
Hours
Minutes
Seconds
Frames
Time counter

HOUR METER DISPLAY

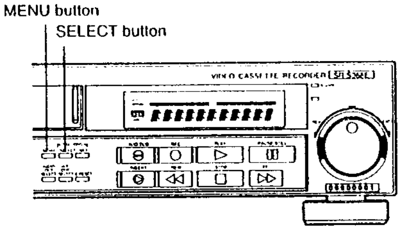
You can check total drum roating hour data on the monitor screen.

1. Press MENU.
   - The Setup Menu appears on the monitor screen.

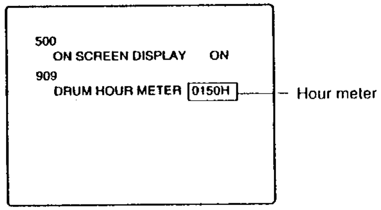
2. Press SELECT.
   - Total drum rotating hours appear on Menu item #909.
   - Up to 9999 hours can be displayed.

3. To exit the hour meter data display, press MENU.

NOTES:
- The Menu Set mode cannot be entered from the Record mode.
- The hour meter data is not available on the display panel.


MENU button
SELECT button

Monitor screen

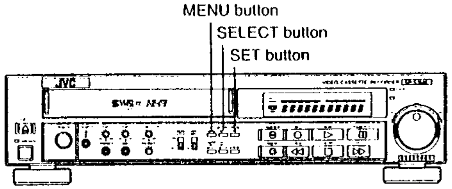


500
ON SCREEN DISPLAY ON
909
DRUM HOUR METER 0150H

MENU SETTING

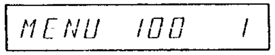
OPERATION

Use the Menu Set mode to cancel any preset functions that you don't require or to change certain parameters as desired. The Menu Set mode cannot be entered from the Record mode.



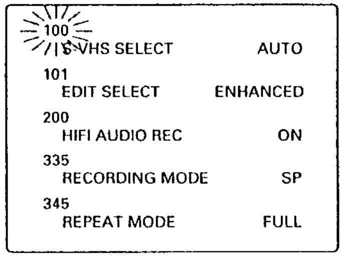
1. Press MENU.
   - The setup menu appears on the monitor screen. The counter display also switches to the Menu Set mode.

- The Menu number 100 for the first item blinks.


MENU 100 1

Display panel

2. Press SELECT to locate the item you want to set.
   - The setting item advances each time the button is pressed (100 → 101 → 200 ...).
3. Press SET to change the setting as desired.
4. To continue setting, repeat steps 2 to 3.
5. To exit the menu, press MENU.
   - The display panel and the monitor screen switch back to the operation status display.


100
S-VHS SELECT AUTO
101
EDIT SELECT ENHANCED
200
HIFI AUDIO REC ON
335
RECORDING MODE SP
345
REPEAT MODE FULL

Monitor screen

To restore to initial setting

1. Eject the cassette.
2. Engage the Menu Set mode.
3. Press EJECT and C.RESET simultaneously.
   - All menu items are restored to their initial settings.

To store menu settings

You can store setting data. Once data has been stored, it remains even if you change the setting item.

1. Eject the cassette.
2. Engage the Menu Set mode.
3. Press EJECT and FF simultaneously.
   - Current setting data is saved.
   - This data remains in memory until new data is saved.

To call up stored data

1. Eject the cassette.
2. Engage the Menu Set mode.
3. Press EJECT and REW simultaneously.
   - The stored data is displayed on the screen.

MENU SETTINGS

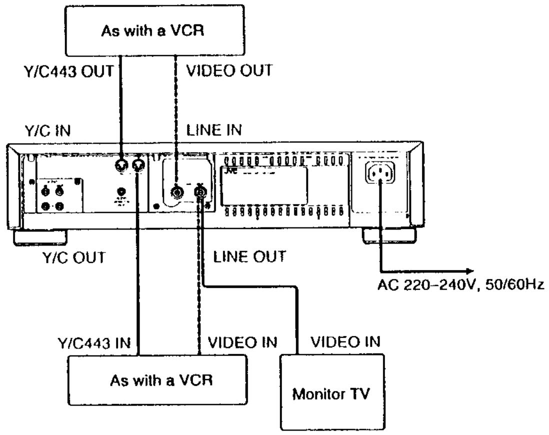
Available setting items are shown below:

[ ]: Initial setting

Menu Items		Settings		Explanation
No.	On-Screen Description	Display panel	On-screen	
100	S-VHS SELECT	[1]	[AUTO]	AUTO: Records in the S-VHS mode when an S-VHS tape is used, and records in the VHS mode when a VHS tape is used.
		0	VHS	VHS: Records in the VHS mode regardless of the tape used.
101	EDIT SELECT			Selects the type of playback picture.
		[0]	[OFF]	OFF: For normal playback
		1	DUB	DUB: To minimise picture deterioration when using this recorder as a feeder in editing or dubbing.
		2	ENHANCED	ENHANCED: To sharpen the picture edge.
200	Hi-Fi AUDIO REC			Activates or defeats Hi-Fi audio recording.
		[1]	[ON]	ON: To record Hi-Fi audio
		0	OFF	OFF: To defeat Hi-Fi audio recording.
335	RECORDING MODE			Selects recording speed.
		[0]	[SP]	SP: To record in the SP mode.
		1	LP	LP: To record in the LP mode. (Insert recording is not possible in the LP mode.)
345	REPEAT MODE			Activates or defeats repeat playback.
		[0]	[OFF]	OFF: To cancel repeat playback.
		1	FULL	FULL: To engage repeat playback. The VCR automatically rewinds the tape at tape end and starts playback again from the beginning.
500	ON-SCREEN DISPLAY			Activates or defeats On-Screen display.
		[1]	[ON]	ON: To activate On-Screen display.
		0	OFF	OFF: To defeat On-Screen display.

CONNECTIONS

VIDEO SIGNAL


As with a VCR
Y/C443 OUT
VIDEO OUT
Y/C IN
LINE IN
Y/C OUT
LINE OUT
AC 220–240V, 50/60Hz
Y/C443 IN
VIDEO IN
VIDEO IN
As with a VCR
Monitor TV

NOTES:

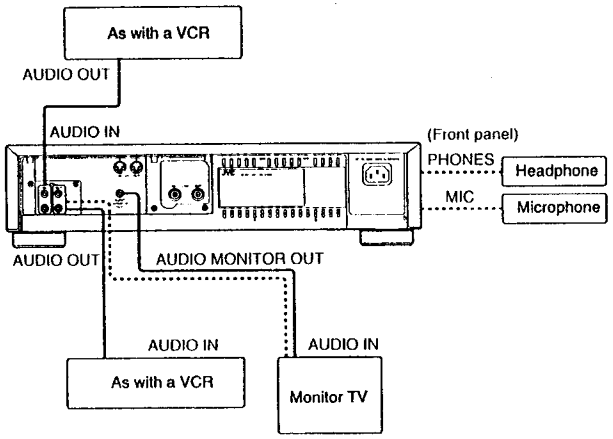
- On-Screen display can be output both from the LINE OUT and Y/C OUT connectors.
- If the units you're connecting to have Y/C connectors, we recommend you use the Y/C connection to make the most of S-VHS picture performance.

Type of connector
LINE IN/OUT: BNC
Y/C IN/OUT: 4-pin

Optional cables
A variety of optional cables are available for Y/C connection.

Model	Connectors on connected unit		Length
	Output	Input	
VC-G30U	4-pin	4-pin	3 m
VC-G50U	4-pin	4-pin	5 m
VC-G3030U	4-pin	7-pin	3 m
VC-G2030U	7-pin	4-pin	3 m
VC-G2050U	7-pin	4-pin	5 m

AUDIO SIGNAL


As with a VCR
AUDIO OUT
AUDIO IN
(Front panel)
PHONES
Headphone
MIC
Microphone
AUDIO OUT
AUDIO MONITOR OUT
AUDIO IN
AUDIO IN
As with a VCR
Monitor TV

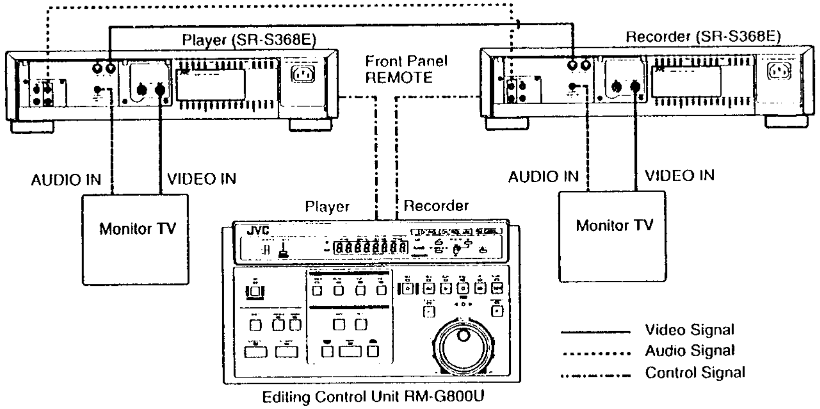
Type of connector
Front panel PHONES: 3.5 dia. mini-jack (stereo)
MIC: 3.5 dia. mini-jack (monaural)
Rear panel All connectors: RCA

NOTES:

- The output audio signal can be selected with AUDIO OUT SELECT or Hi-Fi OUT SELECT on the front panel.
- When audio signals are input to both the MIC jack and the AUDIO LINE IN connectors, mixed audio will be recorded. The audio signal will be recorded on both the normal and Hi-Fi audio tracks.

CONNECTIONS

CONNECTIONS FOR EDITING USING RM-G800U (OPTIONAL)


Player (SR-S368E)
Front Panel REMOTE
Recorder (SR-S368E)
AUDIO IN
VIDEO IN
AUDIO IN
VIDEO IN
Player
Recorder
Monitor TV
Monitor TV
Video Signal
Audio Signal
Control Signal
Editing Control Unit RM-G800U

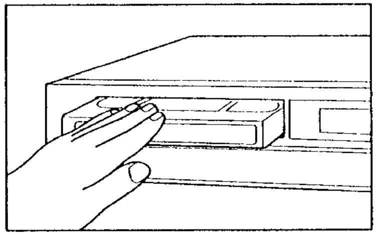
Extension remote cable (optional)
The RM-G800U's cable is about 85 cm long. If you want to extend the cable, use optional cable VC-G8030U (3 m).

NOTES:
- When using the SR-S368E as Recorder, one-monitor editing (EE operation) is not possible because the RM-G800U's Menu setting item "AUTO EE" is not operative with the SR-S368E.

HANDLING VIDEO CASSETTES

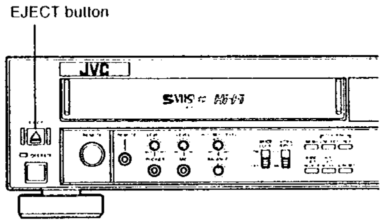
LOADING A CASSETTE

1. Insert a cassette with its label side facing you.
   - VCR power comes on automatically.
   - The VCR enters the Stop mode.
   - The S-VHS indicator lights when an S-VHS tape is loaded with Menu item #100 "S-VHS SELECT" set to "AUTO".



UNLOADING

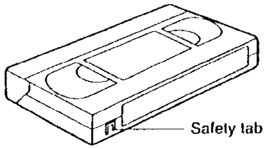
1. Press EJECT.
   - You can press the EJECT button in any mode except the Record. The cassette is ejected automatically.
   - Even when the VCR power is off, simply press the EJECT button to unload a cassette.
2. Remove the cassette.


EJECT button

WARNING
- Do not insert fingers or foreign objects into the cassette loading slot. You may hurt yourself or damage the mechanism.
- Do not try to remove the cassette once automatic loading has started.

ACCIDENTAL ERASURE PREVENTION

- To prevent accidental recording on a recorded cassette, remove the safety tab.
- If the safety tab has been removed and you want to record on the cassette, cover the hole with adhesive tape.

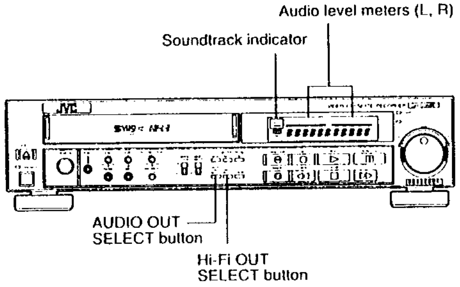


PLAYBACK

PREPARATION

Soundtrack Selection
Select the desired soundtrack. Selected mode is displayed on the display panel.

1. Press AUDIO OUT SELECT to choose desired soundtrack. The soundtrack changes from Hi-Fi → NORMAL → Hi-Fi+NORMAL → Hi-Fi ... each time the button is pressed.
   Hi-Fi: To listen to Hi-Fi audio.
   NORMAL: To listen to normal audio.
   Hi-Fi+NORMAL: To listen to both soundtracks together.
2. If you select Hi-Fi audio, press the Hi-Fi OUT SELECT button to choose the Hi-Fi channel. The channel changes from Lch+Rch → Rch → Lch → Lch+Rch ... each time the button is pressed.



NOTES:
- When you play back a tape which only has a normal (monaural) soundtrack, you do not need to set the VCR to "NORM". This is done automatically.

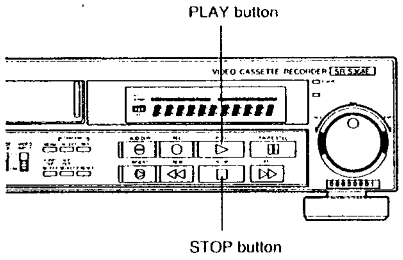
Menu item setting
Set Menu items as required.

1. Picture Control
   Set Menu item #101 "EDIT SELECT MODE" to choose the type of playback picture.
   OFF: When no modification is required. Normally set to this position.
   DUB: When using this recorder as a feeder in editing.
   ENHANCED: When you want a sharper playback picture.
2. Repeat Playback
   Set Menu item #345 "REPEAT MODE" as desired.
   OFF: No repeat playback operation.
   FULL: To engage repeat playback.
3. On-Screen display
   Set Menu item #500 "ON-SCREEN DISPLAY" as desired.
   ON: On-Screen information is output.
   OFF: On-Screen information is not output.

For Menu item setting procedures, ☞p. 12 "MENU SETTING".

BASIC PROCEDURE

1. Load a cassette.
2. Press PLAY to start playback.
3. Press STOP to stop playback.



NOTES:
- VHS/S-VHS selection is automatic. The S-VHS indicator lights when playing back an S-VHS-recorded tape.
- Tape speed selection is automatic. Tape speed can be displayed on screen.
- If Menu item #345 "REPEAT MODE" is set to "FULL", the VCR rewinds automatically and starts playback again from the beginning, otherwise playback stops at tape end.
- If noise appears during playback, correct using the manual tracking buttons (☞p.21).

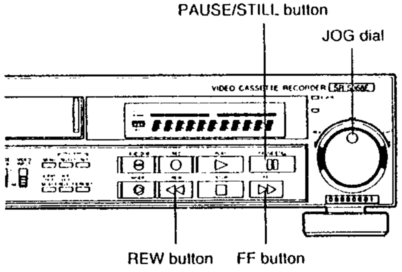
REWIND AND FAST-FORWARD

1. Press REW or FF while in the Stop mode.
2. Press STOP to stop rewind or fast-forward.

STILL AND FRAME ADVANCE

With PAUSE/STILL button

1. Press PAUSE/STILL to view a still picture.
2. Press PAUSE/STILL while in the Still mode to advance or reverse the picture frame by frame. (Advance or reverse depends on the tape direction when the Still mode is engaged.)
3. Press PLAY to resume normal playback.



With JOG dial

1. Turn the JOG dial clockwise for frame advance; counterclockwise for frame reverse.
   - Turning the dial moves the picture one frame at a time in the corresponding direction. When the dial is rotated quickly, the tape speed will be about 0.17 times normal speed.
   - Releasing the dial produces a still picture.
2. Press PLAY to resume normal playback.

NOTES:
- To protect the tape, the Still mode is automatically canceled after about 5 minutes.
- If the still picture is unstable, adjust the V.LOCK with either the TRACKING +/– button (☞p.21).
- There is no audio during still or frame-by-frame playback.
- Normal audio is output during slow-motion playback.

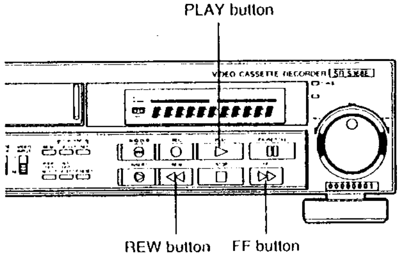
(Continued)

PLAYBACK

SHUTTLE SEARCH

- Press REW while in the Play mode for high-speed reverse search at 9 times normal speed.
- Press FF while in the Play mode for high-speed forward search at 9 times normal speed.
- Press PLAY to resume normal playback.

NOTES:
- Some noise bars will appear during search.

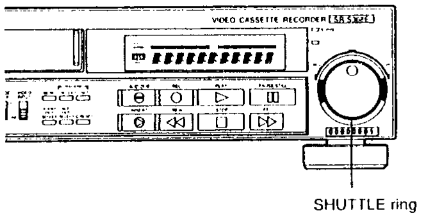


VARIABLE-SPEED SEARCH

Variable-speed search is possible using the SHUTTLE ring. You can control both the direction and speed of tape search. Variable-speed search can activated while in the Still, Play, FF, REW, FWD, REV, or STOP mode.

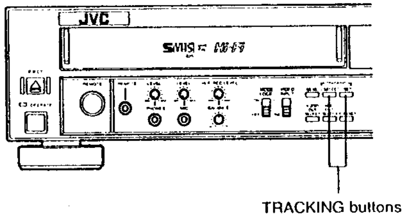
1. Turn the SHUTTLE ring.
   - To search in the forward direction, turn the SHUTTLE ring gradually clockwise. The further you turn the dial, the faster the search speed becomes — from 0.03 to 9 times normal speed.
   - To search in the reverse direction, turn the SHUTTLE ring gradually counterclockwise. The further you turn the dial, the faster the search speed becomes — from 0.03 to 9 times normal speed.
   - Search speed can be displayed on screen.
   - When the SHUTTLE ring is turned fully clockwise or counterclockwise, maximum search speed (9 times normal speed) is attained.
   - Releasing the ring produces a still picture.
2. Press PLAY to resume normal playback.

NOTES:
- There is no audio during search. (Normal audio is output during slow-motion playback.)
- Some noise bars will appear during search.
- When LP recordings are played back in the Search, Still, or Frame-by-Frame playback mode, the picture will be distorted and there may be loss of colour.



TRACKING CONTROL

You can correct tracking to ensure the best possible picture quality.
- To minimise noise bars that may appear on-screen during normal playback or slow-motion playback, press either TRACKING +/– button until the best possible picture is obtained.
- To reset tracking to the centre position, press both TRACKING buttons simultaneously. Tracking is also reset when the cassette is ejected or the power cord is unplugged.



V.LOCK ADJUSTMENT

Vertical jitter in still pictures can be corrected with the TRACKING +/– buttons.
- To minimise jitter, press either TRACKING +/– button until the best possible picture is obtained.

RECORDING

PREPARATION

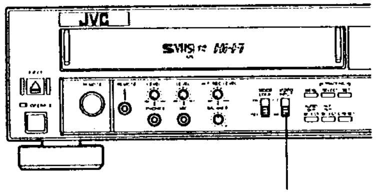
Video input selection

1. Set the VIDEO INPUT select switch as required.
   Y/C: To record the signal input to the Y/C IN connector.
   LINE: To record the signal input to the LINE IN connector.

Menu item setting

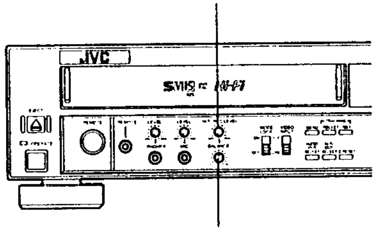
1. Set the recording mode with Menu item #100 "S-VHS SELECT".
   AUTO [1]: Mode selection is automatic; an S-VHS tape is recorded in the S-VHS mode and a VHS tape is recorded in the VHS mode.
   VHS [0]: To record in the VHS mode using an S-VHS tape.
2. Select the soundtrack to record with Menu item #200 "Hi-Fi AUDIO REC".
   ON [1]: To record Hi-Fi audio.
   OFF [0]: To defeat Hi-Fi audio recording.
   When set to "ON", adjust the Hi-Fi audio recording level as desired (see below).
3. Set the recording speed with Menu item #335 "RECORDING MODE".
   SP [0]: To record in the SP (Standard Play) mode.
   LP [1]: To record in the LP (Long Play) mode.

For Menu items setting procedure, ☞p.12 "MENU SETTING".



HI-FI AUDIO RECORDING LEVEL ADJUSTMENT

In most cases, you'll get optimum results by setting the Hi-Fi REC LEVEL and BALANCE controls to the centre position. For more precise adjustment, simply turn the controls while referring to the audio level meters on the display panel.
(Normal audio recording level adjsutment is automatic.)

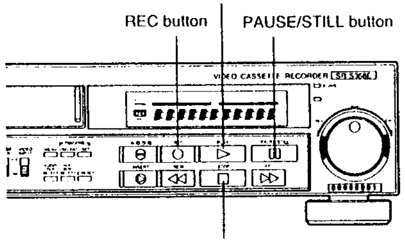


BASIC PROCEDURE

1. Load a cassette with safety tab in place.
2. Press PLAY while pressing REC to start recording.
   - The S-VHS indicator lights when recording in the S-VHS mode.
   - To temporarily stop recording, press PAUSE/STILL.
   - To resume recording, press PLAY.
3. Press STOP to stop recording.

NOTES:

- The VCR automatically stops when Record-Pause continues for more than 5 minutes.
- Elapsed recording time is displayed on the monitor screen if Menu item #500 "ON-SCREEN SELECT" is set to "ON [1]". (☞p.12 "MENU SETTING")
- If recording is attempted with a cassette whose safety tab has been removed, "TAPE ERROR" appears on the display panel and the cassette is automatically ejected.

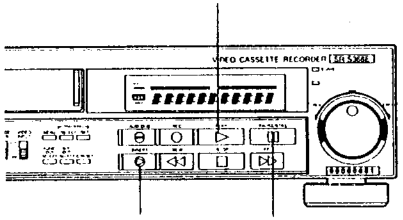


(Continued)

RECORDING

INSERT RECORDING

Insert recording replaces part of the recording with new material. Both video and Hi-Fi audio can be replaced while the normal audio remains unchanged. Insert recording is possible only in the SP mode.



1. Search for the insert recording IN point.
   - Use the JOG/SHUTTLE controls to locate the IN point.
2. Engage the Still mode at the IN point.

3. Press INSERT and PAUSE/STILL together.
   - The VCR enters the Insert-Pause mode and "IS_P" appears on the display panel.

IS_P 0:00:00

4. Press PLAY to start insert recording.
   - The display panel changes to "INS".
   - The video and Hi-Fi audio tracks are replaced. The normal audio track is not affected.
5. Press PAUSE/STILL to temporarily stop insert recording.
6. Press PLAY to re-start insert recording.
7. Press STOP to stop insert recording.

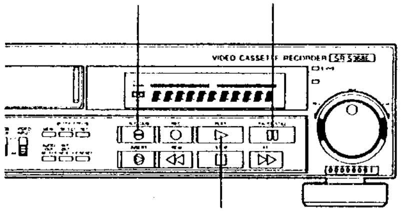
INS 0:00:00

NOTES:
- Insert recording is not possible with a tape which does not contain control signals.
- Insert recording is not possible with a tape whose safety tab has been removed or with a tape recorded in the LP mode. If this is attempted, "TAPE ERROR" appears on the display panel and the cassette is automatically ejected.
- Hi-Fi audio is replaced regardless of the setting of Menu item #200 "Hi-Fi AUDIO REC".
- If there is a segment which does not contain control signals during insert recording, the VCR will automatically record control signals for that segment.
- If insert recording is executed with a tape whose control signals are partially lost, the servo may be abnormal for an instant at the OUT point, or there may be a loss of control signals for several frames.
- Though a picture on the monitor screen may be lost for an instant at the insert recording OUT point, recording will be executed normally.

TAPE ERROR

AUDIO DUBBING

The SR-S368E is equipped with an audio dubbing function. Microphone or other external audio input can be recorded directly on the normal audio track (monaural).
- Audio dubbing is only possible in the SP mode.



1. Search for the audio dubbing IN point.
   - Use the JOG/SHUTTLE controls to locate the IN point.
2. Engage the Still mode at the IN point.

3. Press AUD DUB and PAUSE/STILL together.
   - The VCR enters the Audio-Dub Pause mode and "AD_P" appears on the display panel.

AD_P 0:00:00

4. Press PLAY to start audio dubbing.
   - The display panel changes to "ADB".
   - The normal audio is replaced. The video and Hi-Fi audio tracks are not affected.
5. Press PAUSE/STILL to temporarily stop audio dubbing.
6. Press PLAY to re-start audio dubbing.
7. Press STOP to stop audio dubbing.

ADB 0:00:00

NOTES:
- Audio dubbing is not possible with a tape whose safety tab has been removed or with a tape recorded in the LP mode. If this is attempted, "TAPE ERROR" appears on the display panel and the cassette is automatically ejected.

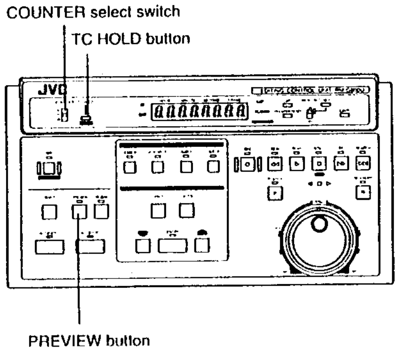
TAPE ERROR

(Option)

AUTOMATIC EDITING WITH RM-G800U

With the optional editing controller RM-G800U, you can configure a simple editing system for automatic assemble and insert editing.

NOTES:
- Some of the RM-G800U's functions do not apply with the SR-S368E. (See below).
- Editing is only possible in the SP mode. If editing is attempted in the LP mode, the cassette is automatically ejected.



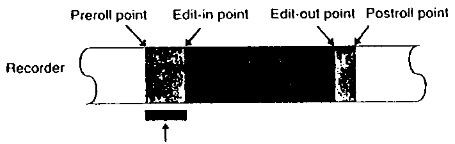
The following buttons, operation, and settings are not applicable.
1. TC HOLD button (Time code cannot be set.)
   Since the SR-368E doesn't incorporate a time code generator/reader, the RM-G800U's counter display shows only CTL time readouts and cannot be changed.
2. COUNTER select switch
   For the same reason above, the counter display cannot be changed.
3. PREVIEW button
   No Preview mode available. (When using the SR-S368E as a recorder.)
4. Since the SR-S368E's normal audio is monaural, audio tracks are not selectable between Audio-1 and Audio-2 in insert editing.
   Normal audio insert editing is engaged by pressing either the AUD-1 or AUD-2 button.
5. The following menu settings of the RM-G800U are not available.

Menu No.	Content	SR-S368E operation
00	Preroll time	Preroll time will be fixed to 5 seconds.
03	Bump ON/OFF	No bump operation.
04	Bump retry accuracy	No bump operation.
05	Editing accuracy	Editing accuracy is +/– 5 frames
06	Edit delay	Cannot be set.
09	Auto EE	Not operative. (When using SR-S368E as a recorder.)

PREPARATION

1. Prepare recording tapes for editing.

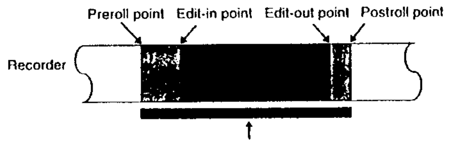
For Assemble Editing
Assemble editing adds one recorded scene to another in succession. When starting assemble editing from the beginning of a tape, or after a blank in the middle of tape, CTL signals must be recorded before the first edit-in point for a period exceeding the preroll time (for more than 5 seconds).



CTL signals required (more than 5 sec.)

- Since the full erase head operates in assemble editing, a non-recorded segment is produced after the postroll point. If assemble editing is applied in the middle of a recorded tape, the picture will be distorted after the postroll point.

For Insert editing
Insert editing replaces part of the recording with new material. Record CTL signals before editing. At minimum, CTL signals must be continuously recorded in the section shown in the figure at right.



CTL signals required

- The edit-in point cannot be specified at the very beginning of a tape. Allow for a section corresponding to the preroll time before the first edit-in point.

- What is preroll time?
  It takes 5 seconds for tape running to stabilise after starting. To ensure that tape running is stable before it reaches an edit point, the tape must start running before the edit-in point (prerolling).

2. Connect necessary components correctly. (See "CONNECTIONS" ☞P.16)

3. Make necessary settings on connected units.
   - For Player VCR (SR-S368E), refer to "PLAYBACK" ☞p.18.
   - For Player VCR (SR-S368E), set Menu item #500 "ON-SCREEN DISPLAY" as desired. When set to "ON", On-Screen information will be recorded. If you don't want this, set it to "OFF".
   - For Recorder VCR (SR-S368E), refer to "RECORDING" ☞p.22.
   - For RM-G800U, set menu settings as desired. Refer to RM-G800U's instruction manual for details.

AUTOMATIC EDITING WITH RM-G800U

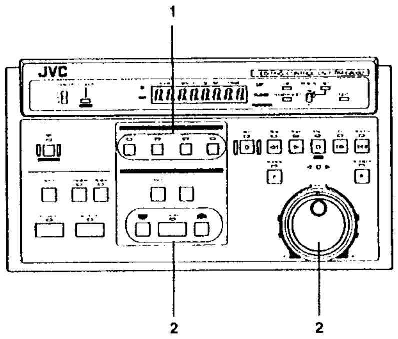
PROCEDURES

Operating flowchart
Editing Procedures can be summarised as follows:

1 Select edit mode
↓
2 Enter edit points
↓
3 Execute an edit
↓
4 Review if necessary
↓
Next edit

1. Select edit mode
   - Select either assemble editing or insert editing
2. Enter edit points
   Enter both edit-in and -out points.
3. Execute an edit
   - After entering edit points, perform editing. This is referred to as "Executing an edit".
4. Review if necessary
   - After executing an edit, you may want to rewind and check the quality of the transition between edit points. This is referred to as "Review".

Proceed with editing by repeating the procedures above using the RM-G800U.



Procedure

1. Select edit mode.
   - To perform assemble editing, press ASSEM.
   - To perform insert editing, select the track you're going to replace by pressing either VIDEO/Hi-Fi or AUD-1 or AUD-2.

VIDEO/Hi-Fi: Prerecorded video and Hi-Fi audio track is replaced by new material.

AUD-1 or AUD-2: Prerecorded normal audio track (monaural) is replaced by new material.

2. Enter edit points.
   - Set edit-in point for each VCR (Feeder/Recorder) and set edit-out point for either Feeder or Recorder.
   - Press "P" to set data for Feeder and press "R" to set data for Recorder.
   - Locate desired edit point using JOG/SHUTTLE controls.
   - To enter edit-in point, press ENTRY while pressing IN.
   - To enter edit-out point, press ENTRY while pressing OUT.

3. Execute the edit.
   - Press AUTO EDIT to start automatic editing.

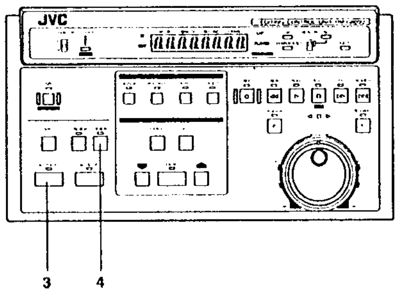
4. Review if necessary.
   - Before you enter new edit points for next edit, press REVIEW. Recorder automatically plays back the last executed.

NOTES:
- Insert editing mode cannot be changed when insert editing is in progress.
- Though a picture on the monitor screen may be lost for an instant at the insert editing OUT point, recording will be executed normally.

VCR operation during editing
1. Both Feeder and Recorder preroll.
2. Feeder starts playback and Recorder enters E-E mode.
3. Recorder's mode changes to Record at the edit-in point.
4. Ends editing at the edit-out point.
   - In assemble editing: Recorder keeps recording after the edit-out point for about 2 seconds.
   - In insert editing: Recorder's mode switches to playback and runs for about 2 seconds.
5. Both Feeder and Recorder return to the edit-out point and enter the Still mode. (If RM-G800U Menu item #01 "EDIT OUT POINT RETURN" is set to "00".)

To stop editing while editing is in progress:
- Press ALL STOP. Editing stops at the point where the button is pressed.

For details about editing using the RM-G800U, refer to the RM-G800U's instruction manual.



MESSAGES

DISPLAY PANEL MESSAGES

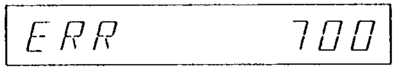
Messages not appearing elsewhere in this manual are listed here.

Messages	Contents
P.OFF	The power cord has been plugged in but the OPERATE button is set to OFF.
N.CASS	No cassette is loaded in the VCR.
SHT.+	The SHUTTLE ring is turned in the forward direction, or the JOG dial is quickly turned clockwise.
SHT.–	The SHUTTLE ring is turned in the reverse direction, or the JOG dial is quickly turned counterclockwise.
SHT.S	The Still mode is engaged by releasing the SHUTTLE ring, or the JOG dial is turned slowly.
ADB	Audio dubbing is in progress.
AD_P	Audio dubbing is paused.
INS	Insert editing is in progress.
IS_P	Insert editing is paused.
ASM	Assemble editing is in progress.

WARNING MESSAGES

Various warning messages are shown by numerical codes on the display panel. Worded warning messages are also provided on-screen. In some cases, power must be turned off and the power cord must be unplugged before the machine can be recovered.

Display panel



Monitor screen

WARNING 700
DRUM MOTOR FAILURE

Code (Display panel)	Warning message (Monitor Screen)	Symptom/Operation
ERR 700	WARNING 700 DRUM MOTOR FAILURE	Drum motor stops. All controls are inoperative.
ERR 720	WARNING 720 REEL FAILURE	Reel rotates abnormally. All controls are inoperative.
ERR 410	WARNING 410 CASSETTE EJECT FAILURE	Cassette carriage does not lift during tape ejection. All controls are inoperative.
ERR 320	(No display)	Tape cannot load correctly. Power is turned off.
TAPE ERROR	(No display)	Invalid command has been given. (eg. When insert recording, audio dubbing or editing is engaged with an LP-recorded tape.) The cassette is ejected and the "TAPE ERROR" display goes off.

TROUBLESHOOTING GUIDE

RECORDING PROBLEMS

Symptoms	Check points
Recording will not start.	• Is the cassette loaded? • Has the cassette's safety tab been removed? – Reseal the slot with adhesive tape.
S-VHS recording is not possible.	• Is an S-VHS cassette in use? • Has Menu item #100 "S-VHS SELECT" been set to "AUTO"? – If not, set it to "AUTO".
VHS recording with an S-VHS tape is not possible.	• Has Menu item #100 "S-VHS SELECT" been set to "VHS"? – If not, set it to "VHS".

PLAYBACK PROBLEMS

Symptoms	Check points
Noise appears during search.	• This is normal.
Noise appears during normal playback.	• Refer to "TRACKING CONTROL". (☞ p.21).
Noise appears during still playback.	• Refer to "V.LOCK ADJUSTMENT". (☞ p.21).
Playback picture is blurred or interrupted.	• Video heads may be dirty. – Head cleaning is necessary. Use a head cleaning cassette. If problem persists, consult your JVC dealer.
Breaks are noticeable in Hi-Fi audio reproduction.	• Refer to "TRACKING CONTROL". (☞ p.21)
Hi-Fi soundtrack cannot be reproduced.	• Has the AUDIO OUT SELECT button been set to "Hi-Fi"? (☞ p.6) – If not, set it to "Hi-Fi".

OTHERS

Symptoms	Check points
No buttons are functioning.	• Has the MODE LOCK switch been set to "ON" – Set it to "OFF"

ATTENTION
This recorder contains microcomputers. External electronic noise or interference could cause malfunctioning. If this happens, turn the power off and unplug the power cord. Then plug it in again and turn on the recorder. Remove the cassette. After checking the cassette, operate the unit as usual.

Head cleaning
Accumulation of dirt and other particles on the video heads may cause blurring or interruption of the playback picture. To reduce the likelihood of dirty heads, this model is equipped with a built-in head cleaner which automatically cleans the heads. If you have any trouble, consult your local JVC service agent.

Auto Head Cleaner
A built-in head cleaner automatically cleans the video heads and head drum whenever a tape is loaded or unloaded to reduce head clogging.

SPECIFICATIONS

GENERAL

Power requirement: AC 220 – 240 V, 50/60 Hz
Power consumption: 19 W
Temperature
  Operating: 5°C to 40°C
  Storage: –20°C to 60°C
Humidity
  Operating: 35% to 80%
  Storage: 5% to 80%
Operating position: Horizontal only
Dimensions (WxHxD): 435 x 107 x 362 mm
Weight: 6.5 kg
Format: VHS/S-VHS PAL standard
Tape width: 12.65 mm
Tape speed (SP): 23.39 mm/s
  (LP): 11.70 mm/s
Maximum recording time
  (SP): 240 min. with E-240 video cassette
  (LP): 480min. with E-240 video cassette

VIDEO

Signal system: PAL-type colour signal/PAL-type Y/C signal
Recording system: Rotary two head helical scan system
  Luminance: FM recording
  Colour: Down-converted direct recording
Input
  Line: 1.0 Vp-p, 75 ohms, unbalanced
  Y/C: Y: 1.0 Vp-p, 75 ohms, unbalanced
    C: 0.3 Vp-p, 75 ohms, unbalanced (Burst)
Output
  Line: 1.0 Vp-p, 75 ohms, unbalanced
  Y/C: Y: 1.0 Vp-p, 75 ohms, unbalanced
    C: 0.3 Vp-p, 75 ohms, unbalanced (Burst)
Signal-to-noise ratio: 43 dB (Rohde & Schwartz noise meter)
Horizontal resolution: 400 lines (S-VHS)
  240 lines (VHS)

AUDIO

Recording system: 2 Hi-Fi tracks/Monaural longitudinal track
Input
  Line: –8 dBs, more than 50 k-ohms, unbalanced
  Mic: –67 dBs, high impedance, unbalanced
Output
  Line: –8 dBs, less than 1 k-ohm, unbalanced
    (100 k-ohms, load)
  Phones: –∞ to –12 dBs, 8 ohms
Frequency response: 70 Hz to 10,000 Hz (Normal)
  20 Hz to 20,000 Hz (Hi-Fi)
Dynamic range: More than 85 dB (Hi-Fi)
Wow & flutter: Less than 0.005% WRMS (Hi-Fi)

ACCESSORIES

Optional accessories: Wired remote control RM-G30U
  Editing controller RM-G800U
  Extension remote cable (for RM-G800U) VC-G8030U (3 m)
  Y/C video cable (refer to "CONNECTIONS" ☞ p.14)

Specifications shown are in SP mode unless otherwise specified.
Design and specifications subject to change without notice.

SECTION 1
DISASSEMBLY AND MECHANISM ADJUSTMENT

Note: For items not included in this section, refer to the service manual (No. 9286) for the SR-S360E.

1.1.2 Front Panel Assambly

1. Remove the top cover. (Refer to 1.1.1)
2. Take out 3 screws Ⓙ and remove the plate (support) and the earth plate.
3. Carefully disengage 3 tabs ⓐ of the front panel assembly from the upper side of chassis.
4. Pull the front panel assembly forward you to disengage 3 tabs ⓑ of the front panel assembly from the bottom of the chassis.

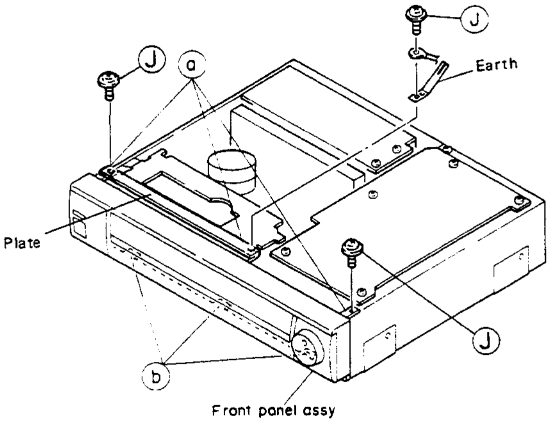


Fig. 1-1-2 Front panel assembly-1

5. Disconnect connector ⓒ from the JOG SHUTTLE assembly.

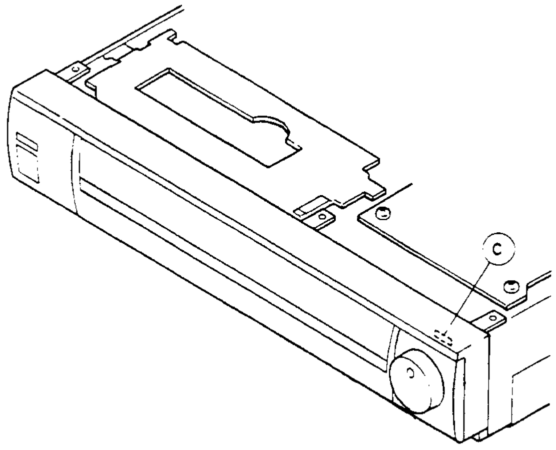


Fig. 1-1-3 Front panel assembly-2

1.6 MEMORY (MENU) SWITCHES

Note: In principle, don't open for user the item without 1.6.1 User's menu.

Details of the menu switches (memory switches), user's menu, service menu, hour meter and Rom version respectively shown as follows.

1.6.1 User's menu (On-screen menu)

①Press the MENU button without the recording mode.
②The display will change the user's menu.
③Press the +/SELECT button to located the desired function (see user's menu chart below).
④Press the −/SET button to select the mode.

Initial settings are in brackets.

Menu items		Settings		
No.	On-Screen Display	On-screen	FDP	Remarks
100	S-VHS SELECT			Selects the recording mode S-VHS or VHS.
		[AUTO]	[1]	The recording mode is switched automatically according to the type of cassette.
		VHS	0	The recording mode is VHS always.
101	EDIT SELECT			Selects the type of playback picture.
		[OFF]	[0]	For normal playback.
		DUB	1	To minimize picture deterioration when using this recorders as a feeder in editing or dubbing.
		ENHANCED	2	To sharpen the picture edge.
200	Hi-Fi AUDIO REC			Selects the Hi-Fi recording mode.
		[ON]	[1]	Activates Hi-Fi sound recording.
		OFF	0	Defeats Hi-Fi sound recording.
335	RECORDING MODE			Selects the recording speed.
		[SP]	[0]	SP mode
		LP	1	LP mode
345	REPEAT MODE	FULL	1	FULL REPEAT playback mode.
		[OFF]	[0]	When tape end detection the VCR function is according to the setting condition of the menu switch "No.312 MODE AT TAPE END".
500	ON SCREEN DISPLAY	[ON]	[1]	Data is displayed on-screen.
		OFF	0	No data is displayed on-screen.

1.6.2 Service menu

①Eject the cassette.
②Press the MENU button while pressing the EJECT button.
③The FDP will change the service menu (FDP only).
④Press the +/SELECT button to locate the desired function (see service menu chart below).
⑤Press the −/SET button to SELECT the mode.

Initial settings are in brackets.

Menu items		Settings	
No.	Menu name	FDP	Remarks
300	DIRECT EJECT	1	EJECT command is accepted from any mode without Recording mode.
		[0]	EJECT command is accepted only from Stop mode.
301	DIRECT SEARCH	[1]	Jog/Shuttle dials function from Stop, Play, Still, FF, REW, FWD and REV modes.
		0	Jog/Shuttle dials function from Stop, Still, FWD and REV modes.
303	Factory use only	[1]	Don't change the setting.
305	REPEAT REC	1	Full Repeat Recording mode.
		[0]	When tape end detection the VCR function is according to the setting condition of the menu switch "No.312 MODE AT TAPE END".
306	Factory use only	[0]	Don't change the setting.
307	LONG PAUSE TIME		When the VCR function is STILL or REC PAUSE modes, the VCR function changes to STOP mode after specified times.
		0	1 second
		1	10 second
		2	30 second
		3	1 minute
		4	2 minute
		5	3 minute
		6	4 minute
		[7]	5 minute
312	MODE AT TAPE END		Selects the mode entered when tape end detection.
		[0]	Rewinds the leader section and enters STOP mode.
		1	Rewinds to the tape begin enters STOP mode.
336	Factory use only	[1]	Don't change the setting.
504	INFORMATION SELECT		Selects the on-screen data.
		0	Only the time data is displayed.
		[1]	The time data and the mode data are displayed.

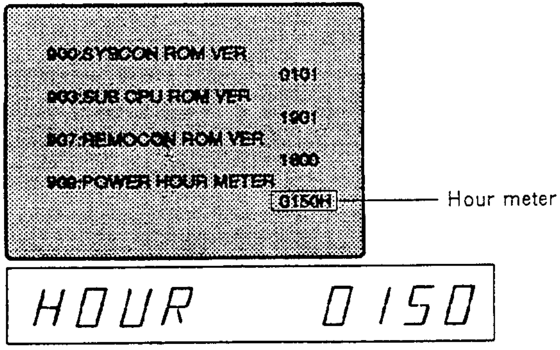
1.6.3 How to reset the Menu switches to the factory setting.

①Eject the cassette.
②Press the MENU button then the display will change the user's menu.
③Press the EJECT and C.RESET buttons together.
④The menu switches will be set to the factory setting.

1.6.4 Hour meter display (resetable)

①Eject the cassette.
②Press the MENU button while pressing the PLAY button.
③The hour meter will be displayed.

Monitor screen


900:SYSCON ROM VER
0101
903:SUB CPU ROM VER
1901
907:REMOCON ROM VER
1800
909:POWER HOUR METER
0150H
Hour meter
HOUR 0150

1.6.5 How to reset the hour meter

①Display the hour meter (refer to 1.6.4).
②Press the C.RESET and −/SET buttons together.
③The hour meter will be reseted.

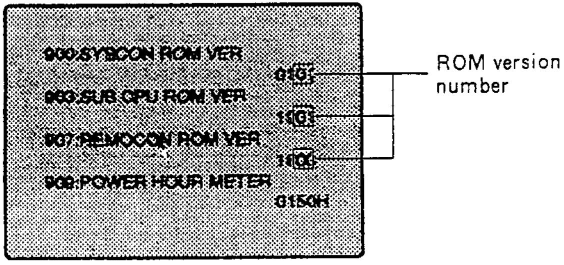
1.6.6 Hour meter display (unresetable)

This model has the unresetable type hour meter, too. Detail of the unresetable type hour meter as follows.
①Display the hour meter (refer to 1.6.4).
②Press the MENU button while pressing the +/SELECT button.
③The unresetable type hour meter will be displayed on the FDP only.

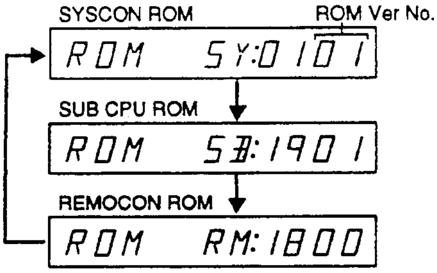
1.6.7 ROM version display

①Eject the cassette.
②Press the MENU button while pressing the STOP button.
③The ROM's version will be displayed.
- 900:SYSCON ROM Ver. 01xx
  SYSCON BOARD IC1 UPD75P216ACW3xx
- 903:SUB CPU ROM Ver. 19yy
  SYSCON BOARD IC2 UPD75P008CU-1yy
- 907:REMOTE ROM Ver. 18zz
  REMOCON BOARD (RM-G800U optional)
  IC2 M38063E6-351FP(for RECORDER)
  IC3 M38063E6-351FP(for PLAYER)

Monitor screen


900:SYSCON ROM VER
0101
903:SUB CPU ROM VER
1901
907:REMOCON ROM VER
1800
909:POWER HOUR METER
0150H
ROM version number

Display panel


SYSCON ROM
ROM Ver No.
ROM SY:0101
SUB CPU ROM
ROM SB:1901
REMOCON ROM
ROM RM:1800

1.6.8 Repeat mode

When tape end detection enter the following modes depending on setting conditions of the Repeat mode switches.(Menu No.345, No.312, No.305)

MENU SWITCH SETTING			VCR MODE					
305: REPEAT REC	312: MODE AT TAPE END	345: REPEAT MODE	REC		PLAYBACK		FF／FWD	
			T-END	T-BIGIN	T-END	T-BIGIN	T-END	T-BIGIN
ON(1)	STOP(0)	OFF(0)	REW	REC	STOP*	–	STOP*	–
		FULL(1)			REW	PLAY	STOP*	–
	REW(1)	OFF(0)			REW	STOP	REW	STOP
		FULL(1)			REW	PLAY	REW	STOP
OFF(0)	STOP(0)	OFF(0)	STOP*	–	STOP*	–	STOP*	–
		FULL(1)	STOP*	–	REW	PLAY	STOP*	–
	REW(1)	OFF(0)	REW	STOP	REW	STOP	REW	STOP
		FULL(1)			REW	PLAY	REW	STOP

☐ Service menu ▨ Initial setting *SHORT-REW→STOP

SECTION 2
ELECTRICAL ADJUSTMENT

Note: For items not included in this section, refer to the service manual (No. 9286) for the SR-S360E.

2.1 ITEM OF THE ADJUSTMENT

1. Switching regulator circuit
   All items are listed in this section. (Though items are in principle, common to those in SR-S360E, the check points have been changed.)

2. Servo circuit
   All items are listed in this section. (Though items are common to those in SR-S360E, the button indications are different.)

3. Video circuit
   Refer to the SR-S360E service manual.

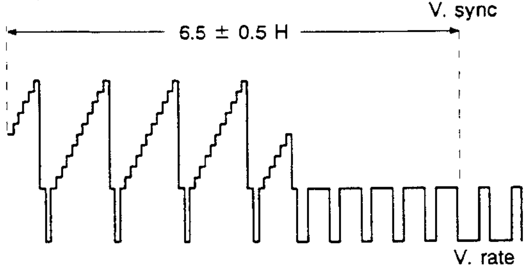
4. Audio circuit
   Only No. 2 FM AUDIO EE LEVEL is listed. (Adjustment value is differnt.) For items not included in this section, refer to the service manual (No. 9286) for the SR-S360E.

5. On screen circuit
   Refer to the SR-S360E service manual.

2.2 SWITCHING REGULATOR CIRCUIT

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Check and Adjustment
1	5 VDC OUTPUT VOLTAGE	CN2-pin ④ [0][2]	R36 [0][2]	COLOUR BAR	S-VHS SP REC	1) Connect a digital voltmeter to CN2-pin ④. 2) Record a colour bar signal. 3) Adjust R36 for 5.32±0.05VDC.

2.3 SERVO CIRCUIT

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Check and Adjustment
1	PB SWITCHING POINT	VIDEO OUT (75Ω terminated) Ext. triger: TP411 VIDEO INTERFACE BOARD [1][0]  Fig. 2-3-1 Switching point	PRESETTING UNIT PGJ05050 JIG MODE	MHPE STAIRSTEP	PB	1) Connect an osilloscope to video out. (TP10 VIDEO INTERFACE [1][0]) 2) Playback the MHPE alignment tepe. 3) Then press the tracking button to maximize the FM level. 4) Adjust by " ﾓｰﾄﾞ " or " ｽﾀﾝﾊﾞｲ " buttons of presetting unit (PGJ05050, JIG MODE) for position the trigger point 6.5 H ± 0.5 H from V. sync.
2	SLOW TRACKING PRESET	MONITOR TV	PRESETTING UNIT PGJ05050 JIG MODE	COLOUR BAR	S-VHS SP, LP REC ↓ PB (1/6 slow) (1/6 REV)	*Note: Do not enter the SLOW mode by the SHUTTLE dial on the unit. Set to the SLOW mode by the VARIABLE SEARCH button on the jig remote controller.* 1) Record a colour bar signal in the SP mode. 2) Playback recorded signal on the FWD slow mode. (Set to a PLAY state, and press the " << " VARIABLE SEARCH button on the jig remote controller once.) 3) Set the tracking control to the center position by simultaneously pressing the (+) and (−) buttons. 4) Observe the display on monitor TV and adjust for optimum noise condition (best tracking) by depressing " 0 " or " VISS " buttons of presetting unit as required. (PRESETTING UNIT PGJ05050 : JIG MODE) 5) Depress the stop button. 6) Confirm that the bar noise is not visible on the monitor TV in the slow mode. 7) Repeat steps 3) to 6) in REV slow mode. (Press the VARIABLE SEARCH button on the jig remote controller five times in a STILL state.) 8) Repeat steps 1) to 7) in LP mode.

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Check and Adjustment
3	V. PULSE POSITION	MONITOR TV	PRESETTING UNIT PGJ05050 JIG MODE	COLOUR BAR	S-VHS SP REC ↓ STILL	1) Record a colour bar signal in the SP mode. 2) Playback recorded signal on the STILL mode. 3) Set the tracking control to the center position by simultaneously pressing the (+) and (−) buttons. 4) Observe the display on monitor TV and adjust for optimum vertical dancing condition by depressing " 0 " or " VISS " buttons of presetting unit as required. (PRESETTING UNIT PGJ05050 : JIG MODE)

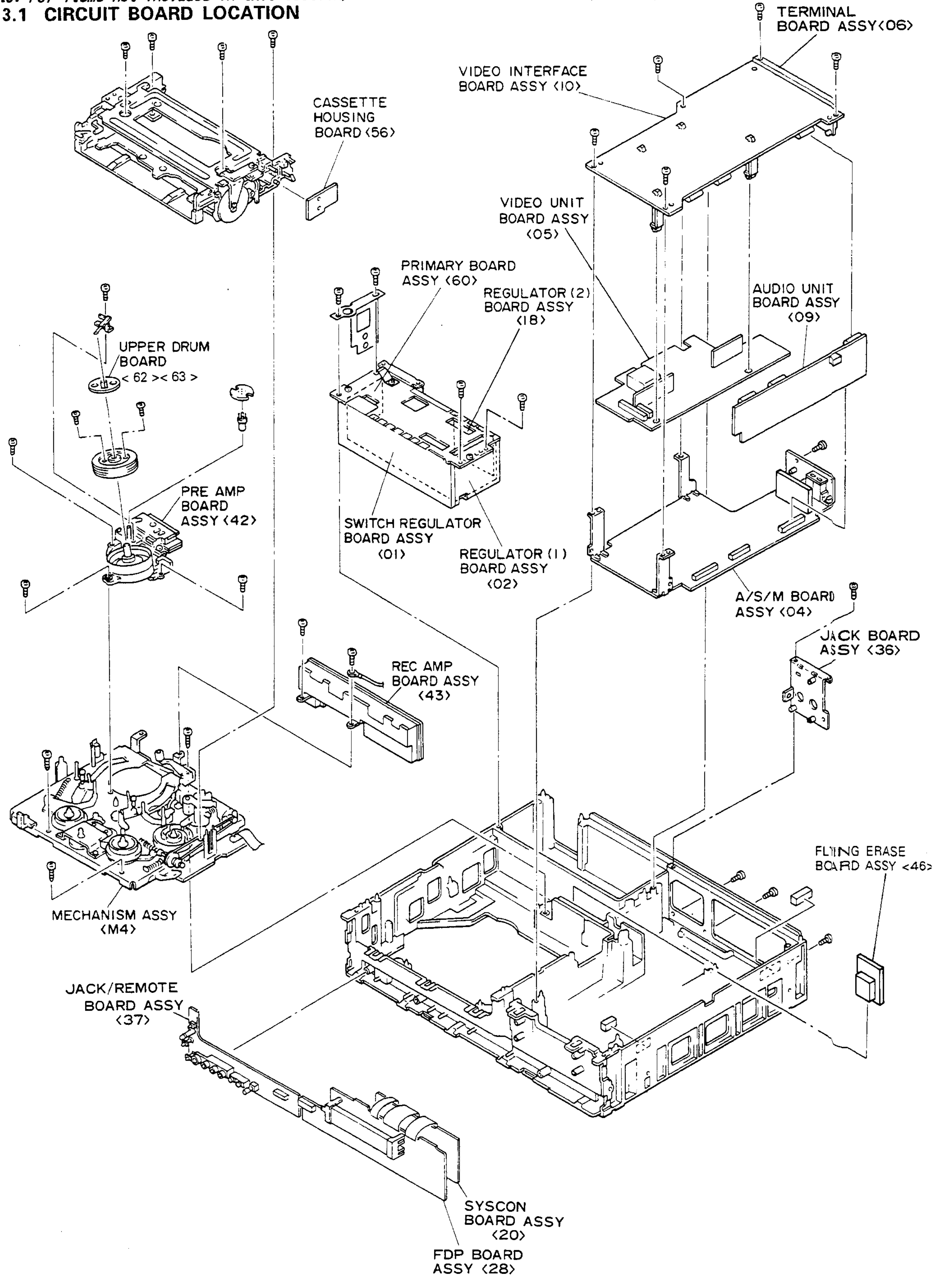
2.5 AUDIO CIRCUIT

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Check and Adjustment
2	FM AUDIO EE LEVEL	AUDIO OUT AUDIO OUT SELECT SW:HiFi HiFi OUT SELECT SW:L+R	R302 $\boxed{1}$ $\boxed{0}$ (L-CH) R301 $\boxed{1}$ $\boxed{0}$ (R-CH)	1kHz −8dBs	EE	1) Confirm the REC BALANCE VR, REC LEVEL VR on the front panel being set to the center position. 2) Supply sine waveform signal of 1kHz/−8dBs to the AUDIO IN terminal. 3) Adjust R302 and R301 so that output level of both channel L and R are −8 dBs.

SECTION 3
CHARTS AND DIAGRAMS

Note: For items not included in this section, refer to the service manual (No. 9286) for the SR-S360E.

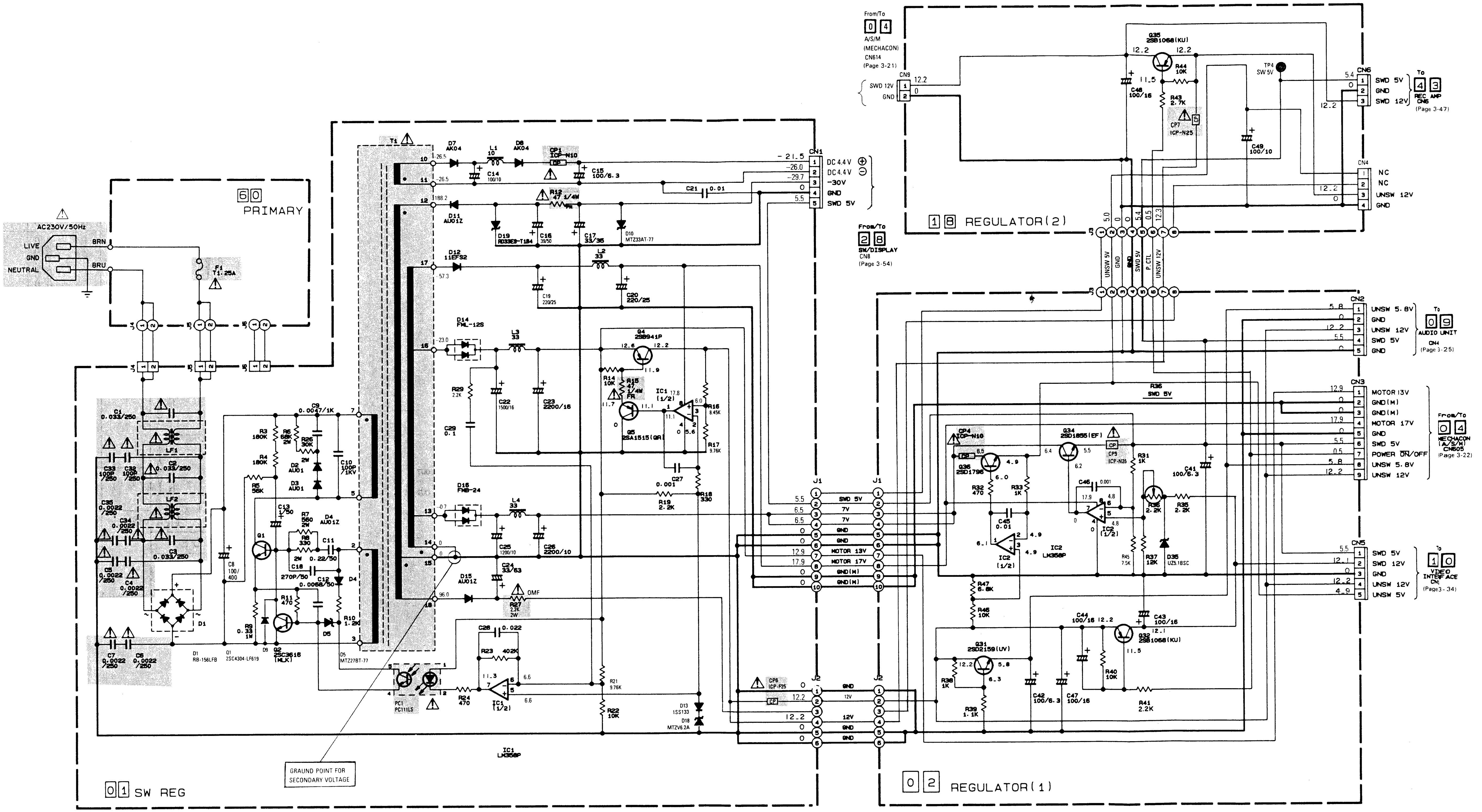
3.1 CIRCUIT BOARD LOCATION


TERMINAL BOARD ASSY<06>
VIDEO INTERFACE BOARD ASSY <10>
CASSETTE HOUSING BOARD <56>
VIDEO UNIT BOARD ASSY <05>
PRIMARY BOARD ASSY <60>
REGULATOR (2) BOARD ASSY <18>
AUDIO UNIT BOARD ASSY <09>
UPPER DRUM BOARD <62><63>
PRE AMP BOARD ASSY <42>
SWITCH REGULATOR BOARD ASSY <01>
REGULATOR (1) BOARD ASSY <02>
A/S/M BOARD ASSY <04>
JACK BOARD ASSY <36>
REC AMP BOARD ASSY <43>
FLYING ERASE BOARD ASSY <46>
MECHANISM ASSY <M4>
JACK/REMOTE BOARD ASSY <37>
SYSCON BOARD ASSY <20>
FDP BOARD ASSY <28>

3.2 CIRCUIT BOARD LOCATIONS

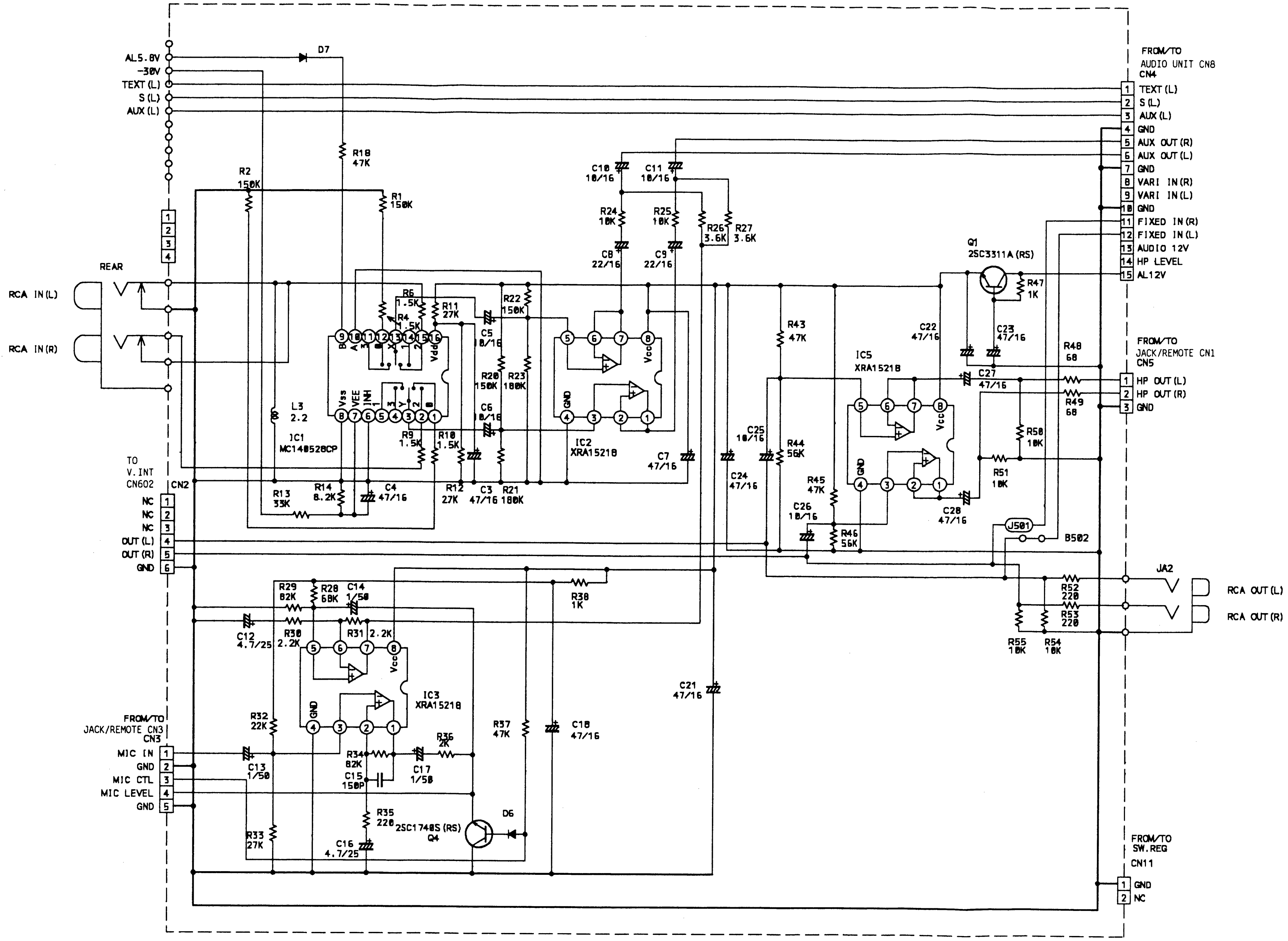
Board No.	Board Neme	Page of diagram			
		Block diagram	Schematic diagram	Circuit board	Parts list
01 02 18 60	SW.REGULATOR REGULATOR (1) REGULATOR (2) PRIMARY	3-4	3-5	SR-S360E(3-15)	5-2 5-3 5-4 5-26
04	A/S/M(SERVO)	SR-S360E(3-7)	SR-S360E(3-17)	SR-S360E(3-23)	5-5
	A/S/M(AUDIO SW)	—	3-6	SR-S360E(3-23)	5-4
	A/S/M(MECHACON)	—	3-7	SR-S360E(3-23)	5-6
05	VIDEO UNIT	SR-S360E(3-11)	SR-S360E(3-31)	SR-S360E(3-29)	5-7
06	TERMINAL	—	3-9	3-9	5-11
09	AUDIO UNIT	—	SR-S360E(3-25)	SR-S360E(3-27)	5-11
10	VIDEO INTERFACE	SR-S360E(3-9)	3-8	SR-S360E(3-37)	5-13
	V. INT.(ON SCREEN)	SR-S360E(3-9)	SR-S360E(3-39)	SR-S360E(3-37)	5-17
12	A/C HEAD	—	3-3	SR-S360E(3-42)	5-19
20	SYSCON	—	3-10	3-11	5-19
28	FDP	—	3-10	3-11	5-20
36	JACK	—	SR-S360E(3-48)	SR-S360E(3-50)	5-21
37	JACK/REMOTE	—	3-9	3-9	5-21
42	PRE AMP	—	SR-S360E(3-59)	SR-S360E(3-61)	5-21
43	REC AMP	—	SR-S360E(3-45)	SR-S360E(3-43)	5-22
46	FLYING ERASE	—	SR-S360E(3-48)	SR-S360E(3-49)	5-25
51	DECK TERMINAL	—	SR-S360E(3-41)	SR-S360E(3-42)	5-25
55	LOADING MDA	—	SR-S360E(3-41)	SR-S360E(3-42)	5-26
56	CASSETTE HOUSING	—	SR-S360E(3-41)	SR-S360E(3-42)	5-26
57	CAP MDA	—	SR-S360E(3-41)	SR-S360E(3-42)	—
62	UPPER DRUM 1	—	3-3	—	5-26
63	UPPER DRUM 2	—	3-3	—	5-26

3.7 SWITCHING REGULATOR, REGULATOR(1) AND (2) SCHEMATIC DIAGRAMS



AC230V/50Hz
LIVE
GND
NEUTRAL
BRN
BRU
F1 T1.25A
60 PRIMARY
T1
CN1
DC4.4V ⊕
DC4.4V ⊖
-30V
GND
SWD 5V
IC1 LM358P
PC1 PC111LS
GRAUND POINT FOR SECONDARY VOLTAGE
01 SW REG
J1
J2
SWD 5V
7V
GND
MOTOR 13V
MOTOR 17V
GND(M)
12V
From/To 04 A/S/M (MECHACON) CN614 (Page 3-21)
CN9
SWD 12V
GND
Q35 2SB1068(KU)
TP4 SW 5V
CN6
SWD 5V
GND
SWD 12V
To 43 REC AMP CN6 (Page 3-47)
CN4
NC
NC
UNSW 12V
GND
18 REGULATOR(2)
From/To 28 SW/DISPLAY CN8 (Page 3-54)
UNSW 5V
GND
SWD 5V
P.CTL
UNSW 12V
CN2
UNSW 5.8V
GND
UNSW 12V
SWD 5V
GND
To 09 AUDIO UNIT CN4 (Page 3-25)
CN3
MOTOR 13V
GND(M)
GND(M)
MOTOR 17V
GND
SWD 5V
POWER ON/OFF
UNSW 5.8V
UNSW 12V
From/To 04 MECHACON (A/S/M) CN505 (Page 3-22)
CN5
SWD 5V
SWD 12V
GND
UNSW 12V
UNSW 5V
To 10 VIDEO INTERFACE CN1 (Page3-34)
IC2 LM358P
Q34 2SD1855(EF)
Q36 2SD1796
Q31 2SD2159(UV)
Q32 2SB1068(KU)
02 REGULATOR(1)
1
2
3
4
5
6
A
B
C
D
E
F
G
H

3.10 AUDIO SW SCHEMATIC DIAGRAM

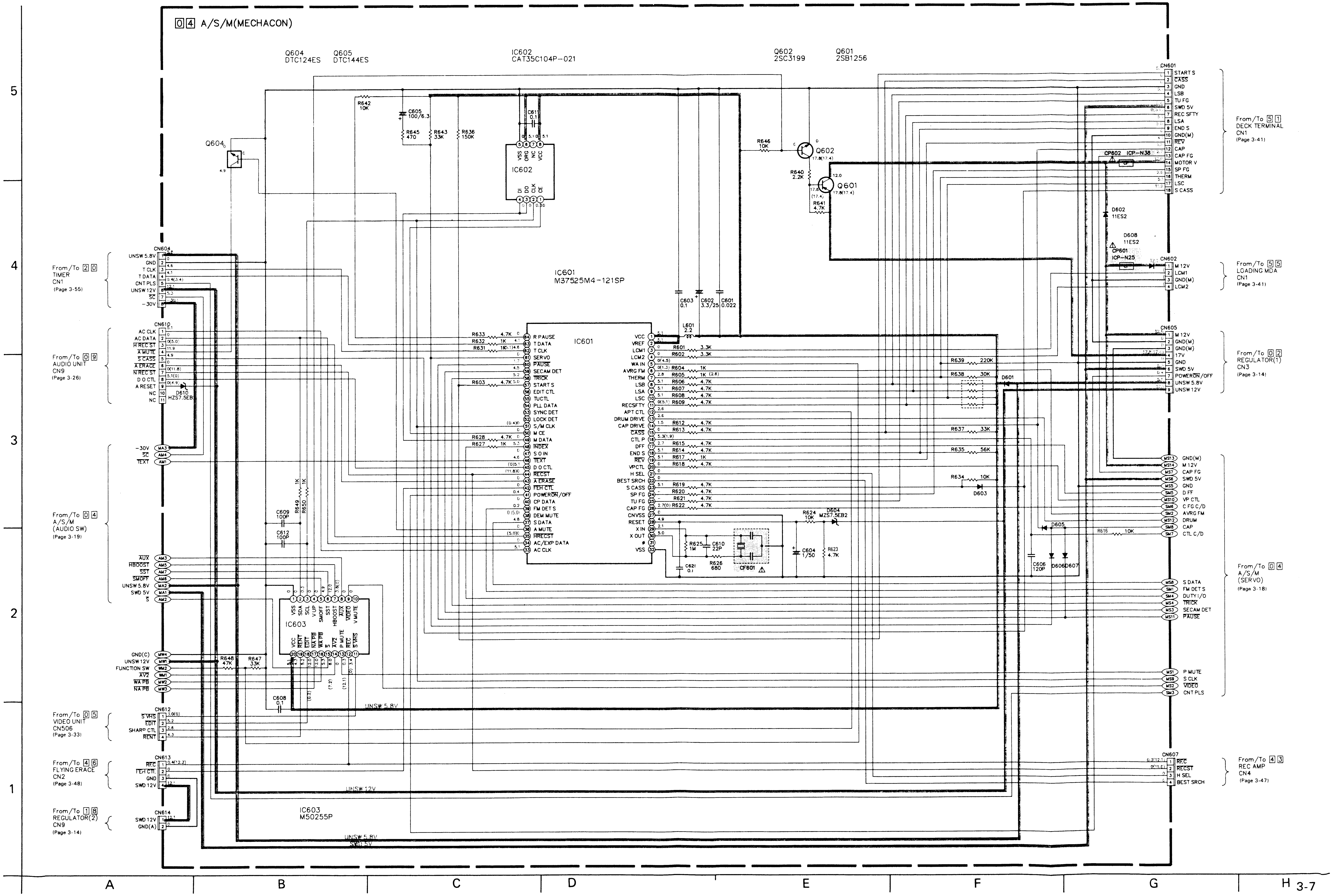

AL5.8V
-30V
TEXT (L)
S (L)
AUX (L)
D7
R18 47K
R2 150K
R1 150K
REAR
RCA IN(L)
RCA IN(R)
R6 1.5K
R4 1.5K
R11 27K
C5 10/16
R22 150K
R20 150K
R23 180K
C6 10/16
L3 2.2
IC1 MC14052BCP
Vss VEE INH Vdd
R9 1.5K
R10 1.5K
R12 27K
C3 47/16
R21 180K
R13 33K
R14 8.2K
C4 47/16
TO V.INT CN602
CN2
NC
NC
NC
OUT (L)
OUT (R)
GND
C10 10/16
C11 10/16
R24 10K
R25 10K
R26 3.6K
R27 3.6K
C8 22/16
C9 22/16
IC2 XRA15218
GND
Vcc
C7 47/16
R43 47K
C25 10/16
C24 47/16
R44 56K
R45 47K
C26 10/16
R46 56K
IC5 XRA15218
C22 47/16
Q1 2SC3311A (RS)
R47 1K
C23 47/16
C27 47/16
R48 68
R49 68
R50 10K
R51 10K
C28 47/16
J501
B502
FROM/TO AUDIO UNIT CN8
CN4
1 TEXT (L)
2 S (L)
3 AUX (L)
4 GND
5 AUX OUT (R)
6 AUX OUT (L)
7 GND
8 VARI IN (R)
9 VARI IN (L)
10 GND
11 FIXED IN (R)
12 FIXED IN (L)
13 AUDIO 12V
14 HP LEVEL
15 AL12V
FROM/TO JACK/REMOTE CN1
CN5
1 HP OUT (L)
2 HP OUT (R)
3 GND
JA2
R52 220
R53 220
R55 10K
R54 10K
RCA OUT (L)
RCA OUT (R)
R29 82K
R28 68K
C14 1/50
R38 1K
C12 4.7/25
R30 2.2K
R31 2.2K
IC3 XRA15218
R32 22K
FROM/TO JACK/REMOTE CN3
CN3
MIC IN
GND
MIC CTL
MIC LEVEL
GND
C13 1/50
R34 82K
R36 2K
C17 1/50
C15 150P
R35 220
2SC1740S (RS) Q4
D6
R37 47K
C18 47/16
C21 47/16
R33 27K
C16 4.7/25
FROM/TO SW.REG
CN11
1 GND
2 NC

—DC VOLTAGE—

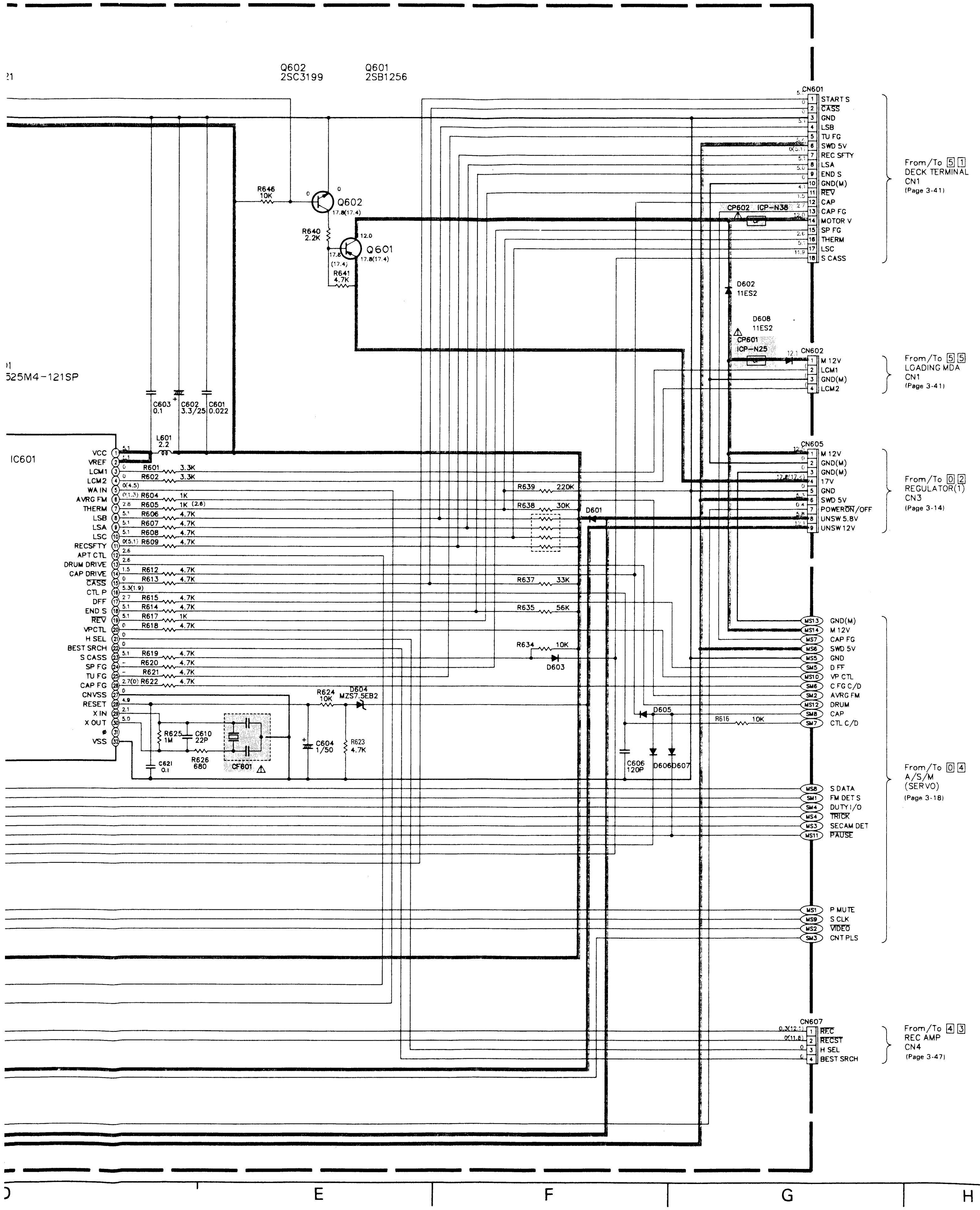
AUDIO SW(A/S/M) <04>

SYMBOL	No.	REC	PB
INTEGRATED CIRCUIT			
IC1	1	0.0	0.0
	2	0.0	0.0
	3	1.1	1.1
	4	NC	NC
	5	NC	NC
	6	0.0	0.0
	7	5.9	5.9
	8	0.0	0.0
	9	5.5	5.5
	10	5.3	5.3
	11	NC	NC
	12	0.0	0.0
	13	0.0	0.0
	14	NC	NC
	15	0.0	0.0
	16	5.6	5.6
IC2	1	6.2	6.2
	2	6.2	6.2
	3	6.1	6.1
	4	0.0	0.0
	5	6.1	6.1
	6	6.1	6.1
	7	6.2	6.2
	8	11.3	11.3
IC3	1	6.1	6.1
	2	6.1	6.1
	3	6.2	6.2
	4	0.0	0.0
	5	6.1	6.1
	6	6.2	6.2
	7	6.2	6.2
	8	11.3	11.3
IC5	1	6.1	6.1
	2	6.1	6.1
	3	6.2	6.2
	4	0.0	0.0
	5	6.1	6.1
	6	6.2	6.2
	7	6.2	6.2
	8	11.3	11.3
TRANSISTOR			
Q1	B	12.0	12.0
	C	12.0	12.0
	E	11.3	11.3
Q4	B	0.7	0.7
	C	0.0	0.0
	E	0.0	0.0
CONNECTOR			
CN1	1	NC	NC
	2	NC	NC
	3	0.0	0.0
	4	0.0	0.0
CN2	1	NC	NC
	2	NC	NC
	3	NC	NC
	4	0.0	0.0
	5	0.0	0.0
	6	0.0	0.0
CN3	1	0.0	0.0
	2	0.0	0.0
	3	1.2	1.2
	4	0.0	0.0
	5	0.0	0.0
CN4	1	4.6	0.0
	2	5.3	5.3
	3	3.8	4.3
	4	0.0	0.0
	5	5.6	5.6
	6	5.7	5.7
	7	0.0	0.0
	8	5.7	5.7
	9	5.7	5.7
	10	0.0	0.0
	11	6.1	6.1
	12	6.0	6.0
	13	11.7	11.7
	14	11.4	11.4
	15	12.1	12.1
CN5	1	0.0	0.0
	2	0.0	0.0
	3	0.0	0.0
CN11	1	0.0	0.0
	2	NC	NC

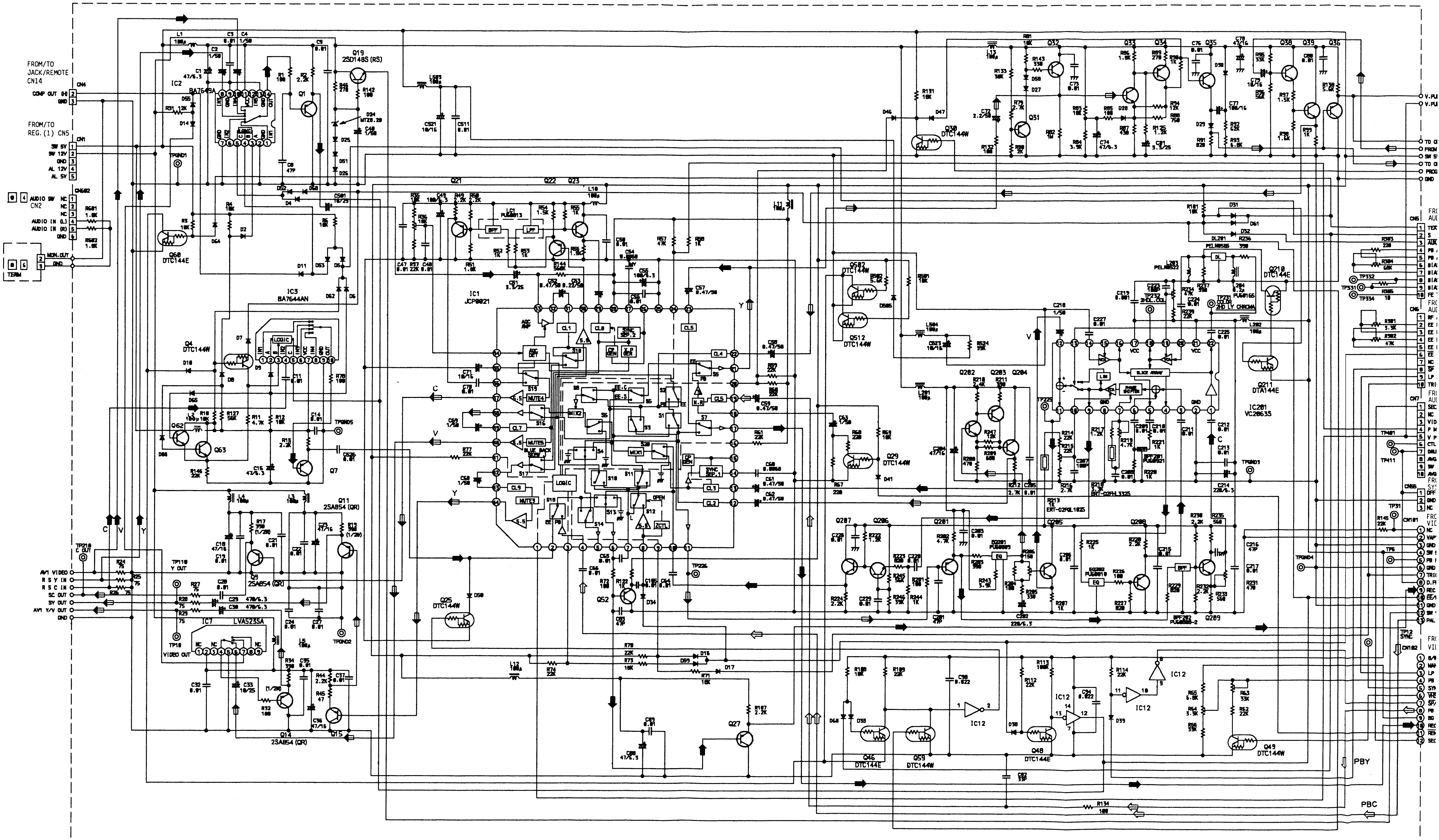
3.11 MECHACON SCHEMATIC DIAGRAM

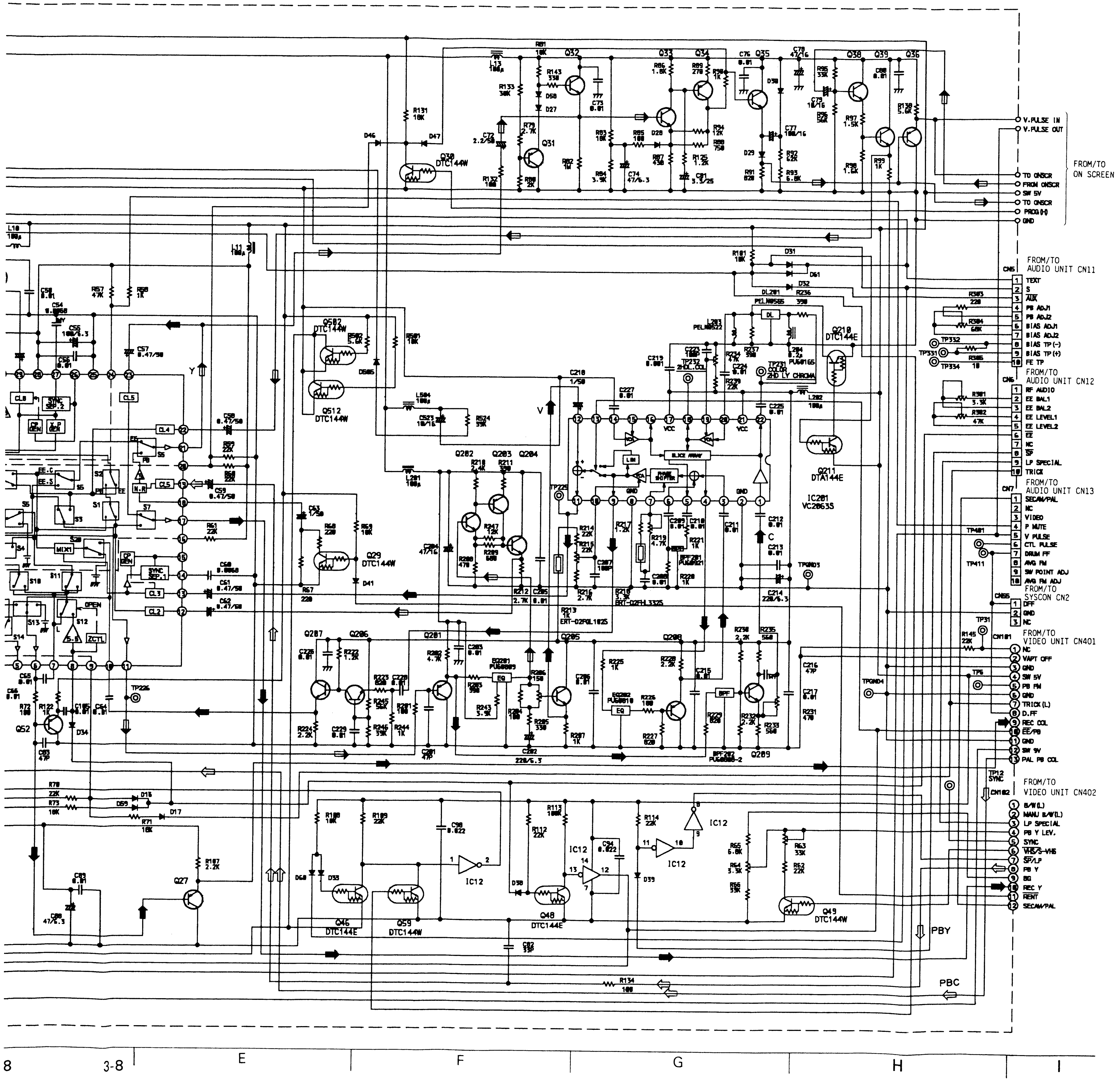


04 A/S/M(MECHACON)
Q604 DTC124ES
Q605 DTC144ES
IC602 CAT35C104P-021
Q602 2SC3199
Q601 2SB1256
IC601 M37525M4-121SP
IC603 M50255P
CN601
START S
CASS
GND
LSB
TU FG
SWD 5V
REC SFTY
LSA
END S
GND(M)
REV
CAP
CAP FG
MOTOR V
SP FG
THERM
LSC
S CASS
From/To 51 DECK TERMINAL CN1 (Page 3-41)
CN602
M 12V
LCM1
GND(M)
LCM2
From/To 55 LOADING MDA CN1 (Page 3-41)
CN605
M 12V
GND(M)
GND(M)
17V
GND
SWD 5V
POWERON/OFF
UNSW 5.8V
UNSW 12V
From/To 02 REGULATOR(1) CN3 (Page 3-14)
GND(M)
M 12V
CAP FG
SWD 5V
GND
D FF
VP CTL
C FG C/D
AVRG FM
DRUM
CAP
CTL C/D
S DATA
FM DET S
DUTY I/O
TRICK
SECAM DET
PAUSE
P MUTE
S CLK
VIDEO
CNT PLS
From/To 04 A/S/M (SERVO) (Page 3-18)
CN607
REC
RECST
H SEL
BEST SRCH
From/To 43 REC AMP CN4 (Page 3-47)
CN604
UNSW 5.8V
GND
T CLK
T DATA
CNT PLS
UNSW 12V
SC
-30V
From/To 20 TIMER CN1 (Page 3-55)
CN610
AC CLK
AC DATA
H REC ST
A MUTE
S CASS
A ERASE
N REC ST
D O CTL
A RESET
NC
NC
From/To 09 AUDIO UNIT CN9 (Page 3-26)
D610 HZS7.5EB
-30V
SC
TEXT
AUX
HBOOST
SST
SMOFF
UNSW 5.8V
SWD 5V
S
From/To 04 A/S/M (AUDIO SW) (Page 3-19)
GND(C)
UNSW 12V
FUNCTION SW
AV2
WA PB
NA PB
CN612
S VHS
EDIT
SHARP CTL
RENT
From/To 05 VIDEO UNIT CN506 (Page 3-33)
CN613
REC
FE CTL
GND
SWD 12V
From/To 46 FLYING ERACE CN2 (Page 3-48)
CN614
SWD 12V
GND(A)
From/To 18 REGULATOR(2) CN9 (Page 3-14)
R PAUSE
T DATA
T CLK
SERVO
PAUSE
SECAM DET
TRICK
START S
EDIT CTL
TUCTL
PLL DATA
SYNC DET
LOCK DET
S/M CLK
M CE
M DATA
INDEX
S O IN
TEXT
D O CTL
RECST
A ERASE
FEH CTL
POWERON/OFF
CP DATA
FM DET S
DEM MUTE
S DATA
A MUTE
HRECST
AC/EXP DATA
AC CLK
VCC
VREF
LCM1
LCM2
WA IN
AVRG FM
THERM
LSB
LSA
LSC
RECSFTY
APT CTL
DRUM DRIVE
CAP DRIVE
CASS
CTL P
DFF
END S
REV
VPCTL
H SEL
BEST SRCH
S CASS
SP FG
TU FG
CAP FG
CNVSS
RESET
X IN
X OUT
VSS
CP602 ICP-N38
CP601 ICP-N25
D602 11ES2
D608 11ES2
D601
D603
D604 MZS7.5EB2
D605
D606
D607
CF601
C605 100/6.3
C611 0.1
C603 0.1
C602 3.3/25
C601 0.022
L601 2.2
C604 1/50
C610 22P
C621 0.1
C606 120P
C609 100P
C612 100P
C608 0.1
R642 10K
R645 470
R643 33K
R636 150K
R646 10K
R640 2.2K
R641 4.7K
R633 4.7K
R632 1K
R631 1K
R603 4.7K
R628 4.7K
R627 1K
R601 3.3K
R602 3.3K
R604 1K
R605 1K
R606 4.7K
R607 4.7K
R608 4.7K
R609 4.7K
R612 4.7K
R613 4.7K
R615 4.7K
R614 4.7K
R617 1K
R618 4.7K
R619 4.7K
R620 4.7K
R621 4.7K
R622 4.7K
R624 10K
R623 4.7K
R625 1M
R626 680
R639 220K
R638 30K
R637 33K
R635 56K
R634 10K
R616 10K
R648 4.7K
R647 33K
R649 1K
R650 1K
VSS
SDA
SCL
VUP
SMOFF
SST
HBOOST
AUX
VIDEO
V MUTE
VCC
RENT
EDIT
NA PB
WA PB
S
AV2
P MUTE
REC
S VHS
UNSW 5.8V
UNSW 12V
SWD 5V
A
B
C
D
E
F
G
H
1
2
3
4
5


Q602
2SC3199
Q601
2SB1256
R646
10K
Q602
R640
2.2K
Q601
R641
4.7K
525M4-121SP
C603
0.1
C602
3.3/25
C601
0.022
L601
2.2
IC601
VCC
VREF
LCM1
LCM2
WA IN
AVRG FM
THERM
LSB
LSA
LSC
RECSFTY
APT CTL
DRUM DRIVE
CAP DRIVE
CASS
CTL P
DFF
END S
REV
VPCTL
H SEL
BEST SRCH
S CASS
SP FG
TU FG
CAP FG
CNVSS
RESET
X IN
X OUT
VSS
R601 3.3K
R602 3.3K
R604 1K
R605 1K
R606 4.7K
R607 4.7K
R608 4.7K
R609 4.7K
R612 4.7K
R613 4.7K
R615 4.7K
R614 4.7K
R617 1K
R618 4.7K
R619 4.7K
R620 4.7K
R621 4.7K
R622 4.7K
R625 1M
C610 22P
R626 680
C621 0.1
CF601
R624 10K
D604 MZS7.5EB2
C604 1/50
R623 4.7K
R639 220K
R638 30K
D601
R637 33K
R635 56K
R634 10K
D603
D605
R616 10K
C606 120P
D606
D607
CP602 ICP-N38
D602 11ES2
D608 11ES2
CP601 ICP-N25
CN601
START S
CASS
GND
LSB
TU FG
SWD 5V
REC SFTY
LSA
END S
GND(M)
REV
CAP
CAP FG
MOTOR V
SP FG
THERM
LSC
S CASS
From/To 5 1
DECK TERMINAL
CN1
(Page 3-41)
CN602
M 12V
LCM1
GND(M)
LCM2
From/To 5 5
LOADING MDA
CN1
(Page 3-41)
CN605
M 12V
GND(M)
GND(M)
17V
GND
SWD 5V
POWERON/OFF
UNSW 5.8V
UNSW 12V
From/To 0 2
REGULATOR(1)
CN3
(Page 3-14)
MS13 GND(M)
MS14 M 12V
MS7 CAP FG
MS6 SWD 5V
MS5 GND
SM5 D FF
MS10 VP CTL
SM6 C FG C/D
SM2 AVRG FM
MS12 DRUM
SM8 CAP
SM7 CTL C/D
MS8 S DATA
SM1 FM DET S
SM4 DUTY I/O
MS4 TRICK
MS3 SECAM DET
MS11 PAUSE
MS1 P MUTE
MS9 S CLK
MS2 VIDEO
SM3 CNT PLS
From/To 0 4
A/S/M
(SERVO)
(Page 3-18)
CN607
REC
RECST
H SEL
BEST SRCH
From/To 4 3
REC AMP
CN4
(Page 3-47)
D
E
F
G
H

3.17 VIDEO INTERFACE SCHEMATIC DIAGRAM


FROM/TO
JACK/REMOTE
CN14
CN4
COMP OUT
GND
FROM/TO
REG.(1) CN5
CN1
SW 5V
SW 12V
GND
AL 12V
AL 5V
CN502
AUDIO SW
CN2
AUDIO IN (L)
AUDIO IN (R)
MON.OUT
GND
TERM
IC2
BA7649A
IC3
BA7644AN
IC7
LVA523SA
VIDEO OUT
IC1
JCP8021
IC12
IC201
VC2863S
Q19
2SD1485 (RS)
Q60
DTC144E
Q4
DTC144W
Q9
2SA854 (QR)
Q11
2SA854 (QR)
Q14
2SA854 (QR)
Q25
DTC144W
Q30
DTC144W
Q502
DTC144W
Q512
DTC144W
Q29
DTC144W
Q210
DTC144E
Q211
DTA144E
Q46
DTC144E
Q59
DTC144W
Q48
DTC144E
Q49
DTC144W
AV1 VIDEO
R S Y IN
R S C IN
SC OUT
SY OUT
AV1 Y/V OUT
GND
TP210
C OUT
TP110
Y OUT
TP10
TPGND1
TPGND2
TPGND3
TPGND4
TPGND5
TP226
TP225
PELN0522
PELN0585
DL201
TP231
COLOR
2HD LY CHROMA
BLUE BACK
LOGIC
MIX1
MIX2
SYNC SEP.1
SYNC SEP.2
AGC DET
BPF
LPF
EQ
SLICE AMP
PBY
PBC
C
V
Y


V.PULSE IN
V.PULSE OUT
FROM/TO ON SCREEN
TO ONSCR
FROM ONSCR
SW 5V
TO ONSCR
PROG(H)
GND
FROM/TO AUDIO UNIT CN11
CN5
TEXT
S
AUX
PB ADJ1
PB ADJ2
BIAS ADJ1
BIAS ADJ2
BIAS TP(-)
BIAS TP(+)
FE TP
FROM/TO AUDIO UNIT CN12
CN6
RF AUDIO
EE BAL1
EE BAL2
EE LEVEL1
EE LEVEL2
EE
NC
SF
LP SPECIAL
TRICK
FROM/TO AUDIO UNIT CN13
CN7
SECAM/PAL
NC
VIDEO
P MUTE
V PULSE
CTL PULSE
DRUM FF
AVG FM
SW POINT ADJ
AVG FM ADJ
FROM/TO SYSCON CN2
CN55
DFF
GND
NC
FROM/TO VIDEO UNIT CN401
CN101
NC
VAPT OFF
GND
SW 5V
PB FM
GND
TRICK(L)
D.FF
REC COL
EE/PB
GND
SW 9V
PAL PB COL
FROM/TO VIDEO UNIT CN402
CN102
B/W(L)
MANU B/W(L)
LP SPECIAL
PB Y LEV.
SYNC
VHS/S-VHS
SP/LP
PB Y
BG
REC Y
REMT
SECAM/PAL
PBY
PBC
IC201
VC2063S
Q30 DTC144W
Q502 DTC144W
Q512 DTC144W
Q29 DTC144W
Q210 DTC144E
Q211 DTA144E
Q46 DTC144E
Q59 DTC144W
Q48 DTC144E
Q49 DTC144W
IC12
8
E
F
G
H
I

—DC VOLTAGE—

VIDEO INTERFACE <10>

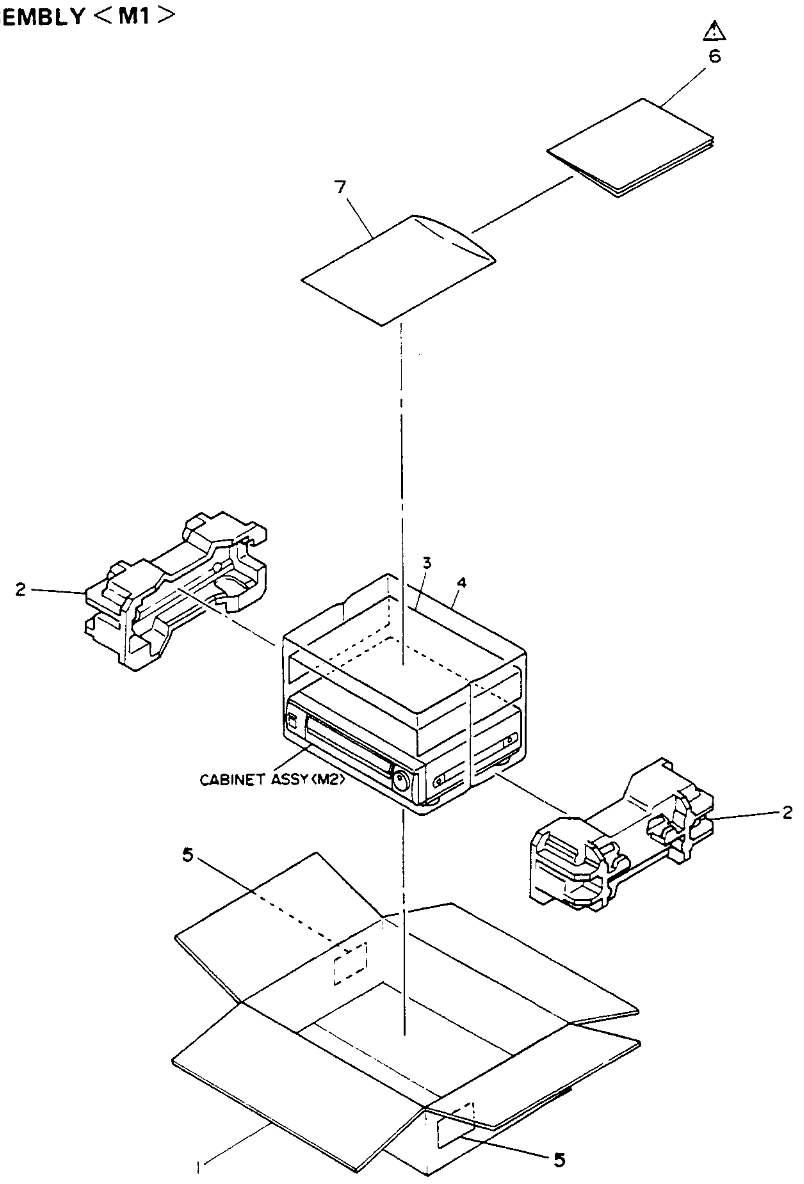
SYMBOL	No.	REC	PB
INTEGRATED CIRCUIT			
IC1	1	0.0	0.0
	2	0.5	0.5
	3	2.7	5.3
	4	3.5	0.0
	5	1.9	0.0
	6	2.1	0.0
	7	3.6	3.6
	8	0.9	3.5
	9	0.5	5.3
	10	2.8	2.8
	11	1.9	1.9
	12	4.0	4.0
	13	4.0	4.0
	14	0.1	0.1
	15	0.3	0.3
	16	0.1	0.1
	17	1.9	1.9
	18	2.1	2.3
	19	0.1	3.4
	20	2.6	2.6
	21	0.0	2.6
	22	4.0	4.5
	23	3.9	4.0
	24	0.1	0.1
	25	0.0	0.0
	26	0.4	5.1
	27	2.7	2.9
	28	5.2	5.2
	29	4.0	4.0
	30	2.0	3.5
	31	3.9	1.2
	32	3.0	3.6
	33	3.1	3.4
	34	3.1	3.1
	35	2.4	1.4
	36	2.9	2.9
	37	2.8	2.8
	38	2.0	0.0
	39	4.0	4.0
	40	0.1	2.1
	41	5.2	5.2
	42	1.9	1.9
	43	4.1	4.1
	44	1.8	2.0
IC2	1	2.1	2.1
	2	0.0	0.0
	3	4.2	4.2
	4	4.2	4.2
	5	3.1	4.8
	6	2.0	2.0
	7	0.0	0.0
	8	2.0	2.0
	9	0.0	0.0
	10	2.0	2.0
	11	5.3	5.3
	12	2.5	2.1
	13	0.0	0.0
	14	1.0	0.6
IC3	1	3.8	3.8
	2	4.1	4.1
	3	3.0	3.0
	4	3.8	3.8
	5	0.0	5.2
	6	3.8	3.8
	7	5.2	5.2
	8		
	9	0.0	0.0
	10	2.3	2.3
IC7	1		
	2	2.0	2.0
	3		
	4	0.0	0.0
	5	4.8	4.8
	6	5.4	5.4
	7	0.2	0.2
	8	5.5	5.7
	9		
IC12	1	0.0	0.0
	2	5.3	5.3
	3	0.0	0.0
	4	0.0	0.0
	5	4.4	4.4
	6	0.0	0.0
	7	5.2	5.2
IC12	8	0.0	0.0
	9	5.3	5.3
	10	5.3	5.3
	11	0.7	0.7
	12	5.2	5.2
	13	0.0	0.0
	14	5.3	5.3
IC201	1	2.7	2.7
	2	0.0	0.0
	3	2.3	2.3
	4	1.9	1.9
	5	1.7	1.7
	6	2.3	2.3
	7	3.0	3.0
	8	0.0	0.0
	9	2.3	2.3
	10	1.4	1.4
	11	1.8	1.8
	12	2.9	2.9
	13	0.0	5.3
	14	3.4	3.4
	15	3.1	2.8
	16	2.4	0.0
	17	5.1	5.1
	18	1.6	1.6
	19	0.7	1.4
	20	3.4	3.4
	21	5.2	5.2
	22	1.6	1.6
TRANSISTOR			
Q1	B	1.0	0.6
	C	0.0	0.0
	E	1.6	1.3
Q4	B	0.6	0.6
	C	3.9	3.9
	E	0.6	0.6
Q7	B	2.3	2.3
	C	0.0	0.0
	E	2.9	2.9
Q9	B	2.8	2.8
	C	0.0	0.0
	E	3.3	3.7
Q11	B	2.7	2.7
	C	0.0	0.0
	E	3.3	3.3
Q14	B	4.7	4.7
	C	0.0	0.0
	E	5.3	5.3
Q15	B	1.9	1.9
	C	0.0	0.0
	E	2.5	2.5
Q19	B	10.1	10.1
	C	12.0	12.0
	E	9.5	9.5
Q21	B	2.4	2.4
	C	0.0	0.0
	E	3.0	3.0
Q22	B	2.0	1.2
	C	0.0	0.0
	E	2.7	1.9
Q23	B	4.0	3.6
	C	5.2	5.2
	E	3.3	2.9
Q25	B	5.2	5.2
	C	0.0	0.0
	E	0.0	0.0
Q27	B	2.0	2.0
	C	0.0	0.0
	E	2.6	2.6
Q29	B	0.0	2.0
	C	4.5	0.0
	E	2.7	2.6
Q30	B	0.3	0.0
	C	5.2	4.5
	E	0.0	0.0
Q31	B	0.7	0.3
	C	0.0	5.2
	E	1.3	0.0
Q32	B	2.5	0.7
	C	12.0	0.0
	E	2.4	1.3
Q33	B	2.4	2.5
	C	10.5	12.0
	E	1.8	2.4
Q34	B	4.3	2.4
	C	12.0	10.5
	E	3.7	1.8
Q35	B	4.3	4.3
	C	12.0	12.0
	E	3.7	3.7
Q36	B	2.9	4.3
	C	0.0	12.0
	E	3.6	3.7
Q38	B	7.3	2.9
	C	12.0	0.0
	E	6.6	3.6
Q39	B	3.4	7.3
	C	12.0	12.0
	E	2.8	6.6
Q46	B	4.0	3.4
	C	0.0	12.0
	E	0.0	2.8
Q48	B	0.6	4.0
	C	5.2	0.0
	E	0.0	0.0
Q49	B	0.1	3.7
	C	2.4	0.0
	E	0.0	0.0
Q52	B	2.1	0.5
	C	0.0	2.4
	E	2.7	0.0
Q59	B	4.0	2.1
	C	0.0	0.0
	E	0.0	2.7
Q60	B	0.6	4.0
	C	0.0	0.0
	E	0.0	0.0
Q62	B	4.4	0.6
	C	5.3	0.0
	E	4.1	0.0
Q63	B	4.8	4.4
	C	5.3	5.3
	E	4.2	4.1
Q201	B	0.8	4.8
	C	0.0	5.3
	E	1.4	4.2
Q202	B	2.4	0.8
	C	9.5	0.0
	E	2.8	1.4
Q203	B	9.5	3.5
	C	5.9	9.5
	E	10.1	2.8
Q204	B	5.9	9.5
	C	12.0	5.9
	E	5.3	10.1
Q205	B	3.4	3.4
	C	5.1	5.1
	E	2.7	2.7
Q206	B	2.0	2.0
	C	4.2	4.2
	E	1.4	1.4
Q207	B	4.2	4.2
	C	5.1	5.1
	E	3.6	3.6
Q208	B	0.8	0.8
	C	0.0	0.0
	E	1.4	1.4
Q209	B	2.6	2.6
	C	3.3	3.3
	E	1.9	1.9
Q210	B	0.0	0.0
	C	0.0	0.0
	E	0.0	0.0
Q211	B	2.4	4.8
	C	0.0	0.0
	E	3.0	5.3
CONNECTOR			
CN1	1	5.3	5.3
	2	12.0	12.0
	3	0.0	0.0
	4	12.1	12.1
	5	4.9	4.9
CN5	1	4.6	4.6
	2	5.3	5.3
	3	3.9	4.3
	4	0.0	0.0
	5	0.0	0.0
	6	0.0	0.0
	7	0.3	0.0
	8	0.0	0.0
	9	0.0	0.0
	10	0.0	0.0
CN6	1	0.0	0.0
	2	9.5	9.5
	3	9.3	9.3
	4	5.9	5.9
	5	2.2	2.2
	6	0.0	5.1
	7	0.0	0.0
	8	0.2	0.0
	9	5.4	5.4
	10	5.2	5.2
CN7	1	4.5	4.5
	2	0.0	0.0
	3	0.0	0.0
	4	0.0	0.0
	5	0.0	0.0
	6	2.7	2.7
	7	2.7	2.7
	8	0.0	0.9
	9	0.0	0.0
	10	0.0	0.0
CN55	1	2.7	2.7
	2	0.0	0.0
	3	N C	N C
CN602	1	N C	N C
	2	N C	N C
	3	N C	N C
	4	0.0	0.0
	5	0.0	0.0
	6	0.0	0.0

SECTION 4
EXPLODED VIEWS AND PARTS LIST

SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

4.1 PACKING ASSEMBLY < M1 >

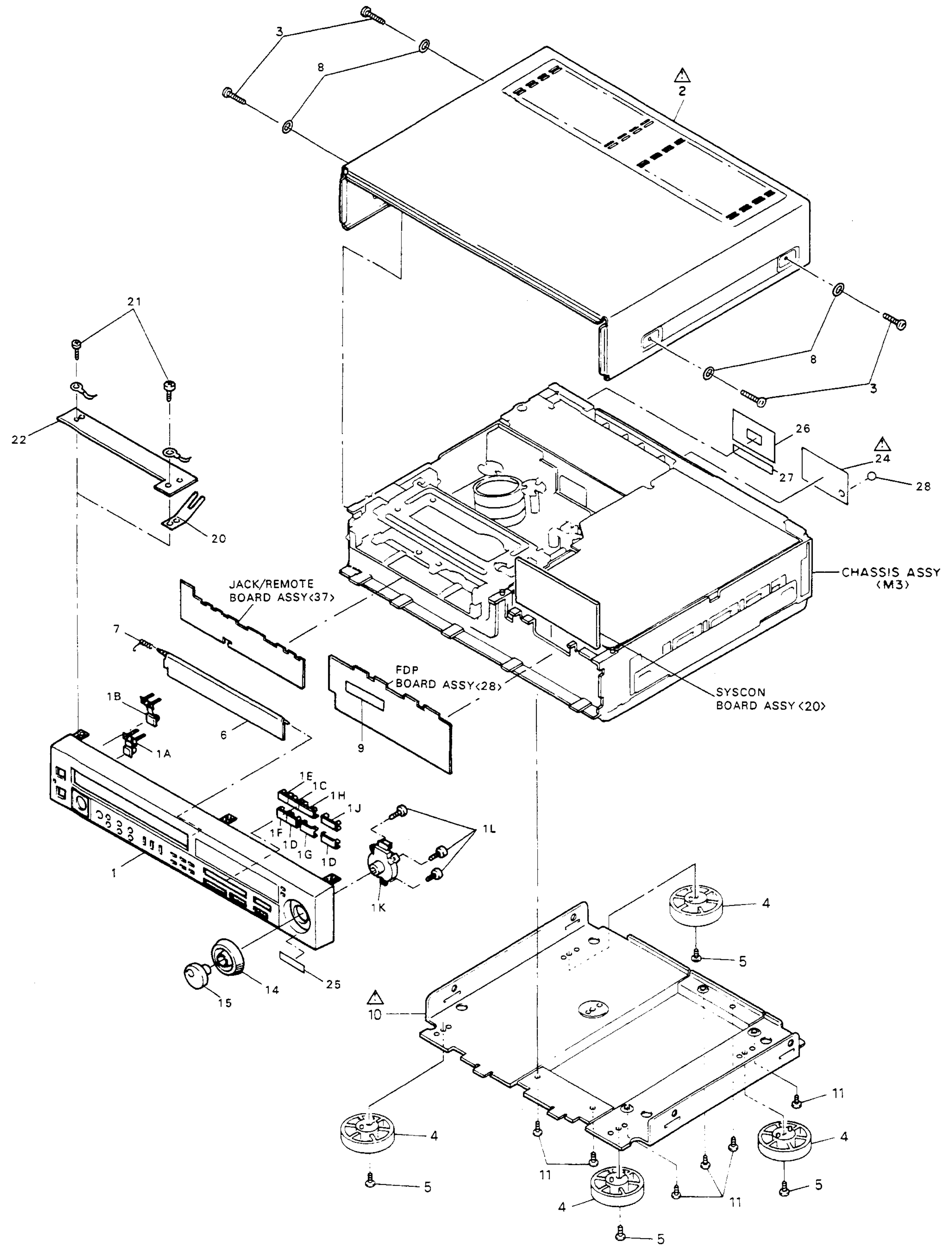


PACKING ASSEMBLY M1

M 1 M M ☐☐☐☐

⚠ REF No.	PART No.	PART NAME, DESCRIPTION
1	PRD39001-02	PACKING CASE, 368E
2	PRD30993A	CUSHION ASSY, 368E
3	PU57777	WADDING PAD
4	PQM30021-82	POLY BAG
5	PUP40619	SERIAL NO.STICKER, ×2
⚠ 6	PGD30002-444	INSTRUCTIONS, 368E
7	QPGA025-03505	POLY BAG

4.2 CABINET ASSEMBLY ⟨M2⟩



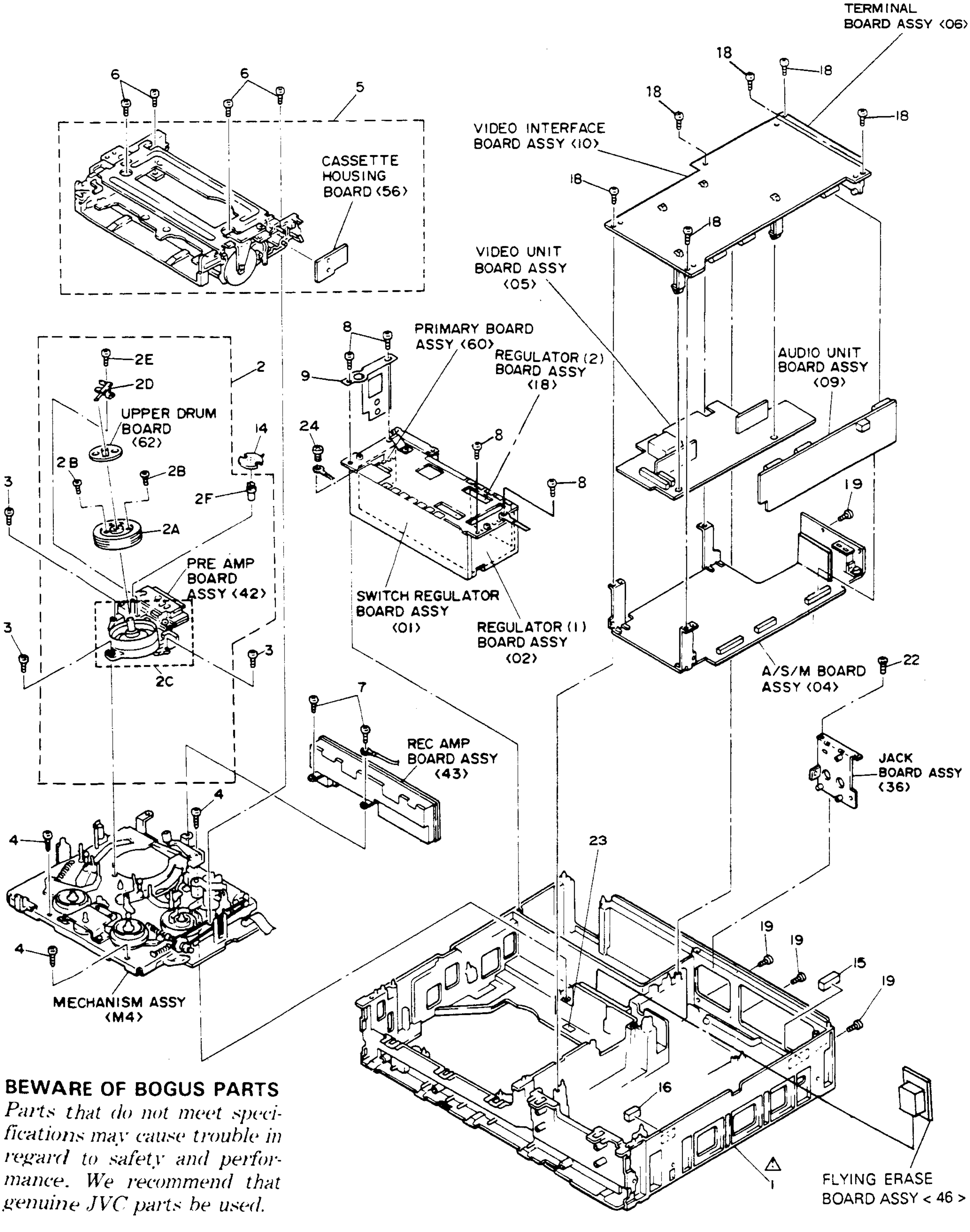
3
8
2
21
8
3
22
26
24
27
28
20
CHASSIS ASSY ⟨M3⟩
JACK/REMOTE BOARD ASSY⟨37⟩
7
FDP BOARD ASSY⟨28⟩
SYSCON BOARD ASSY⟨20⟩
1B
6
1A
9
1E
1C
1H
1J
1L
1F
1D
1G
1D
1
1K
4
5
25
14
15
10
11
4
4
11
11
4
5
5
5

CABINET ASSEMBLY M2

M 2 M M ☐ ☐ ☐ ☐

⚠ REF No.	PART No.	PART NAME, DESCRIPTION
1	PRD10309A-01	FRONT PANEL ASSY, 368E
1A	PRD30989	BUTTON(POWER)
1B	PRD30990	BUTTON(EJECT)
1C	PRD42437-01-03	KNOB (A), REC
1D	PRD42437-02-03	KNOB (A), FF/REW
1E	PRD42437-03-03	KNOB (A), AUD DUB
1F	PRD42437-04-03	KNOB (A), INSERT
1G	PRD42438-01-02	KNOB (B), STOP
1H	PRD42438-02-02	KNOB (B), PLAY
1J	PRD42438-03-02	KNOB (B), PAUSE/STILL
1K	PEME0886	JOG SHUTTLE ASSY
1L	SDSF2605Z	SCREW, ×3
⚠ 2	PQ11011-12	TOP COVER
3	PQ43827-3	SPECIAL SCREW, ×4
4	PQ43945A-3	FOOT ASSY, ×4
5	SDSF3010Z	SCREW, ×4
6	PQ32853-24	CASSETTE HOUSING DOOR, 368E
7	PQ43772	TORSION SPRING, 368E
8	WBS3000N	WASHER, ×4
9	PQ45990	FILTER
⚠ 10	PQ11025-1-5	BOTTOM COVER
11	SDSG3008Z	SCREW, ×5 FOR B.COVER
14	PQ34405-1-4	SHUTTLE KNOB
15	PQ34526B-3	JOG KNOB ASSY
20	PQ41556	EARTH PLATE
21	SDSF3010Z	SCREW, ×3
22	PQ34683-1-1	PLATE(SUPPORT)
⚠ 24	PRD30085-32	RATING LABEL, 368E
25	PQ40111-1-5	SERIAL NO.PLATE, 368E
26	PRD39002	SHEET(INLET), 368E
27	PU47397	STICKER
28	QZL1501-001	SEMKO LABEL

4.3 CHASSIS ASSEMBLY <M3>


TERMINAL BOARD ASSY <06>
18
18
18
18
18
18
VIDEO INTERFACE BOARD ASSY <10>
6
6
5
CASSETTE HOUSING BOARD <56>
VIDEO UNIT BOARD ASSY <05>
8
PRIMARY BOARD ASSY <60>
REGULATOR (2) BOARD ASSY <18>
9
2E
2D
2
UPPER DRUM BOARD <62>
14
24
8
AUDIO UNIT BOARD ASSY <09>
2B
2B
3
2F
8
19
2A
PRE AMP BOARD ASSY <42>
SWITCH REGULATOR BOARD ASSY <01>
REGULATOR (1) BOARD ASSY <02>
3
3
2C
A/S/M BOARD ASSY <04>
22
7
REC AMP BOARD ASSY <43>
JACK BOARD ASSY <36>
4
4
23
4
19
19
15
19
MECHANISM ASSY <M4>
16
1
FLYING ERASE BOARD ASSY < 46 >

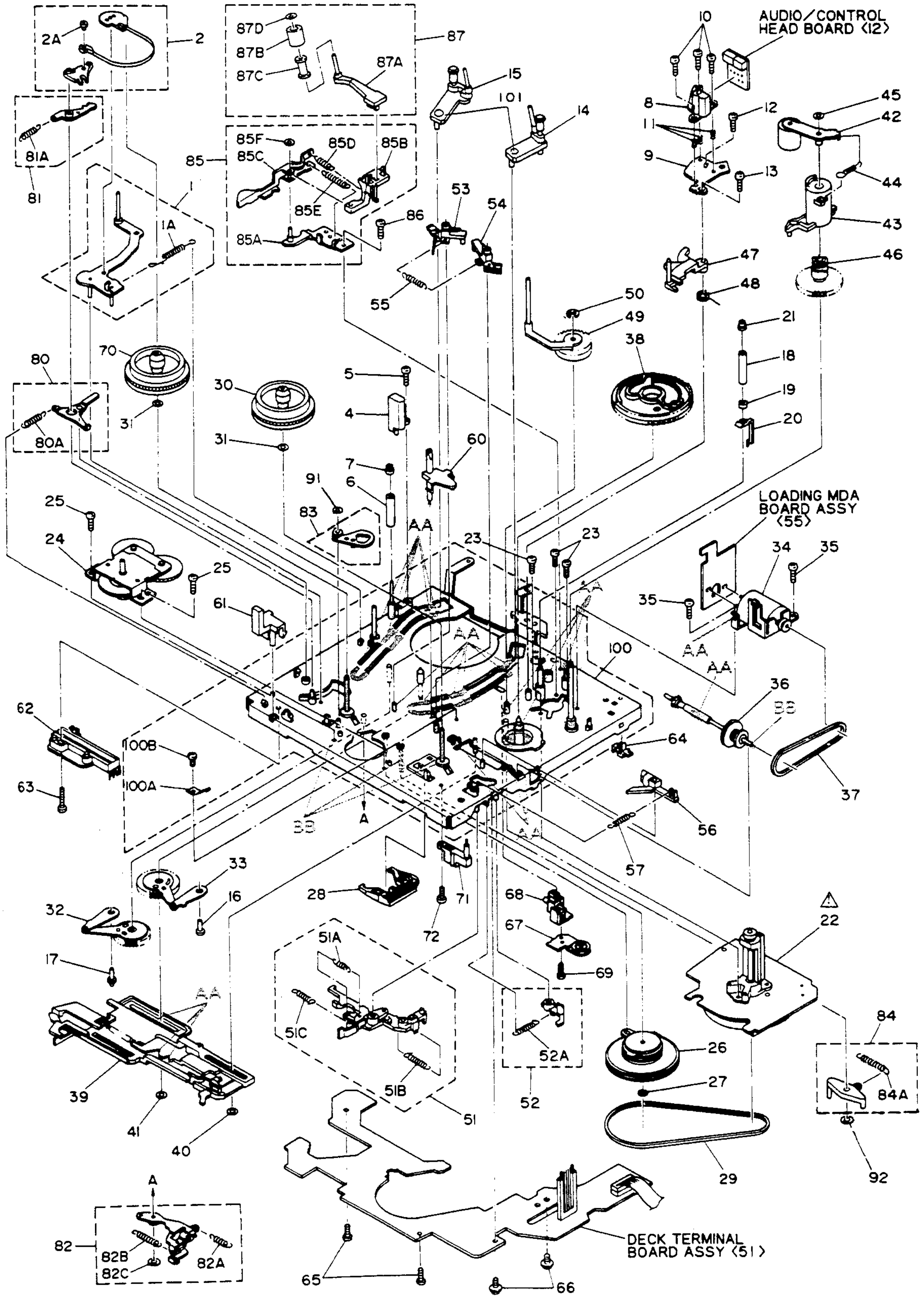
BEWARE OF BOGUS PARTS

Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.

CHASSIS ASSEMBLY M3

⚠ REF No.	PART No.	PART NAME, DESCRIPTION
⚠ 1	PQ10995-1-12	BOTTOM CHASSIS, 368E
2	PDV2215A	DRUM ASSY
2A	PDM2119C	UPPER DRUM ASSEMBLY
2B	PDM4165A	DRUM SCREW ASSY, ×2
2C	PDM2138Q	LOWER DRUM MOTOR ASSY
2D	PDM4229A-1	BRUSH ASSY
2E	SPSG2606Z	SCREW
2F	PDM4226A	ROLLER ASSY
3	SDST2610Z	SCREW, ×3 FOR DRUM
4	PQ43831	SPECIAL SCREW, ×3 FOR DECK
5	PUS29499A	CASSETTE HOUSING ASSY, 368E
6	SDST2608Z	SCREW, ×4 FOR HOUSING
7	SDST2606Z	SCREW, ×2 FOR REC AMP
8	SDSF3010Z	SCREW, ×4 FOR SW.REG
9	PQ44940-1-1	PLATE(EARTH)
14	PQ45160	INERTIA PLATE
15	PQM30029-153	SPACER
16	PQM30029-161	SPACER
18	SDSF3010Z	SCREW, ×6 FOR VIDEO INT
19	SDSF3010M	SCREW, ×4 FOR REAR
22	SDSF3010Z	SCREW, FOR JACK
23	PQM30029-17	SPACER
24	GPST2608Z	SCREW, ×3

4.4 MECHANISM ASSENBLY <M4>



2A
2
87D
87B
87C
87A
87
15
101
14
10
AUDIO/CONTROL HEAD BOARD <12>
8
12
11
9
13
45
42
44
43
46
81A
81
85F
85C
85D
85B
85
85E
85A
86
1
1A
53
54
55
47
48
50
49
38
21
18
19
20
80
70
30
5
4
31
80A
60
7
6
91
83
AA
25
24
23
LOADING MDA BOARD ASSY <55>
34
35
61
100
36
BB
62
100B
100A
64
37
63
56
A
57
33
16
32
28
71
72
68
67
22
17
51A
69
51C
84
52A
26
39
51B
27
84A
41
51
52
40
29
92
82
82B
82C
82A
65
66
DECK TERMINAL BOARD ASSY <51>

Category	Part number	MARK
Grease	KANTO-G-31KAV	AA
Oil	COSMO-HV56	BB

NOTE: The section marked in AA and BB indicate lubrication and greasing areas.

MECHANISM ASSEMBLY M4

M 4 M M ☐☐☐☐

⚠ REF No.	PART No.	PART NAME, DESCRIPTION
1	PQ43497J	TENSION ARM ASSY
1A	PQ43500	TENSION SPRING
2	PQ44734A-7	TENSION BAND ASSY
	or PQ45527A-1	TENSION BAND ASSY
2A	PQ45456	ADJUST PIN
4	PU60616	FULL ERASE HEAD
5	SDSF2614Z	SCREW
6	PQ43505-1-1	ROLLER
7	PQ43506	GUIDE POLE CAP
8	PU61002	AUDIO/CONTROL HEAD
9	PQ43509	HEAD BASE
10	PQ43687A	SPECIAL SCREW, ×3
11	PQM30002-192	COMPRESSION SP, ×3
12	SPSF2608M	SCREW
13	SPSP2606Z	SCREW
14	PU61103-2-7	POLE BASE ASSY (TAKE-UP)
15	PU61151-2-6	POLE BASE ASSY (SUPPLY)
16	PQ45895	STOPPER(T)
17	PQ45894	STOPPER(S)
18	PQ43526-1-3	TAPE GUIDE
19	PQ43670-1-1	GUIDE FLANGE
20	PQ43675	TAPE GUARD
21	PQ43506	GUIDE POLE CAP
⚠ 22	PU61003-1-2	CAPSTAN MOTOR
23	SPSG2608Z	SCREW, ×3
24	PU61246	IDLER GEAR UNIT
	or PQ21363A	IDLER GEAR UNIT
25	SPST2606Z	SCREW, ×2
26	PU61245-1-3	CLUTCH UNIT
	or PQ34212A	CLUCTH UNIT
27	PQM30017-8	SLIT WASHER
28	PQ43532B	CHANGE LEVER ASSY
29	PU61006	TIMING BELT
30	PU60858-1-4	REEL DISK (TAKE-UP)
	or PQ45617A	REEL DISK (TAKE-UP)
31	PQM30018-54	SPACER, ×2
32	PQ43537B	LOADING ARM ASSY (SUPPLY)
33	PQ43542D-4	LOADING ARM ASSY (TAKE-UP)
34	PQ43676B-5	MODE MOTOR ASSY
	or PQ43676C-7	MODE MOTOR ASSY
35	SPST2606Z	SCREW, ×2
36	PQ43548A-3	WORM CLUTCH ASSY
37	PQM30003-23	BELT
38	PQ20822-3	CONTROL CAM
39	PQ44581B	PLATE ASSY
40	PQM30017-12	SLIT WASHER
41	PQM30017-8	SLIT WASHER
42	PQ43558E	PINCH ROLLER ARM ASSY
	or PQ43558D	PINCH ROLLER ARM ASSY
43	PQ32415	PINCH ROLLER PRESS LEVER
44	PQM30001-233	TENSION SPRING
45	PQM30017-12	SLIT WASHER
46	PQ32416-2	PINCH ROLLER CAM
47	PQ43567A-13	GUIDE ARM ASSY
48	PQ43569-1-3	TORSION SPRING
49	PQ43570B	HALF LOADING GEAR ASSY
50	PQM30017-12	SLIT WASHER

⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	51	PQ43575A-5	CANCEL LEVER ASSY
	51A	PQM30001-273	TENSION SPRING
	51B	PQM30001-237	TENSION SPRING
	51C	PQM30001-274	TENSION SPRING
	52	PQ43578A-2	HOOK ASSY
	52A	PQM30001-238	TENSION SPRING
	53	PQ43581D	MAIN BRAKE ASSY (SUPPLY)
	54	PQ43582C	MAIN BRAKE ASSY (TAKE-UP)
	55	PQM30001-251	TENSION SPRING
	56	PQ43583A-3	SUB BRAKE ASSY (TAKE-UP)
	57	PQM30001-346	TENSION SPRING
	60	PU60621-1-2	LED HOLDER, (INCL, LED:D1)
	61	PU60624-1-4	REC SAFETY SWITCH,(S2)
		or PU61281	REC SAFETY SWITCH
	62	PU61247-1-1	SLIDE ENCORDER,(S3)
	63	SDSF2614Z	SCREW
	64	PQ32516	PWB HOLDER
	65	SDST2616Z	SCREW, ×2
	66	GPSF2608Z	SCREW, ×2
	67	PQ43912A-7	PULLEY ARM ASSY
	68	PQ33249	PULLEY BASE
	69	PQ45121A	SCREW
	70	PU60859-1-4	REEL DISK (SUPPLY)
		or PQ45622A	REEL DISK (SUPPLY)
	71	PU61008	CASSETTE SW, (S1)
	72	SDST2608Z	SCREW
	80	PQ44739A-1	LOCK LEVER 1 ASSY
	80A	PQM30001-278-46	TENSION SPRING
	81	PQ44741A-3	LOCK LEVER 2 ASSY
	81A	PQM30001-279-52	TENSION SPRING
	82	PQ44743A-8	IDLER LEVER ASSEMBLY
	82A	PQM30001-344	TENSION SPRING
	82B	PQM30001-301	TENSION SPRING
	82C	PQM30017-5	SLIT WASHER
	83	PQ44746A-2	OFF LEVER ASSY
	84	PQ44585A-8	CAPSTAN BRAKE ASSEMBLY
	84A	PQM30001-282-52	SPRING
	85	PQ44843A-3	A.BASE ASSY
	85A	PQ44845B	A.BASE SUB ASSY
	85B	PQ33511-1-2	CLEANER ARM
	85C	PQ44841-1-4	CANCEL LEVER
	85D	PQM30001-299	TENSION SPRING
	85E	PQM30001-300	TENSION SPRING
	85F	PQM30017-5	SLIT WASHER
		or PQM30017-46	SLIT WASHER
	86	SPST2606Z	SCREW
	87	PQ44840B-5	CLEANER BASE ASSY
	87A	PQ44844A	CLEANER BASE SUB ASSY
	87B	PQ44837	CLEANER
	87C	PQ45689	ROLLER
	87D	PQM30017-38	SLIT WASHER
	91	PQM30017-5	SLIT WASHER
	92	PQM30017-8	SLIT WASHER
	100	PQ20994A-6	MAIN DECK ASSEMBLY
		or PQ21232A-2	MAIN DECK ASSEMBLY
	100A	PQ43849	EARTH PLATE
	100B	SPST2604Z	SCREW
	101	PQM30017-41	SLIT WASHER, ×2

SECTION 5
ELECTRICAL PARTS LIST

SAFETY PRECAUTION
Parts indentified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

NOTES: ●< 2 digits > indicates circuit board symbol number.
●"X" indicates quantity per set.

01 02 18

SW.REG.BOARD ASSY <01><02><18>

#△	REF No.	PART No.	PART NAME, DESCRIPTION
△	A01	PGZ00760	AC INLET
	BKT1	PQ21026-5	BRACKET (1)
	BKT2	PQ21027-5-4	BRACKET (2)
△	BKT3	PQ33381-5	BRACKET(POWER)
	PWBA	PB10565Q	SW.REGULATOR BOARD ASSY,368
△	CV1	PQ33981	COVER(AC)
△	CV2	PQ33644-1-2	COVER(AC) (2)
	CV3	PU52931	CONNECTOR COVER
△	STK1	PRD44090	STICKER
	BKT4	PQ33965	BRACKET(SW.REG)
	ETH1	PQ44695	EARTH PLATE
	SCW1	SDST3006Z	SCREW, × 8
	SCW2	SDSP3008Z	SCREW
	SCW3	DPSP4006N	SCREW
	SLD1	PQ33382	SHIELD COVER(1)
	SLD2	PQ33383	SHIELD COVER(2)
	SPC1	PQM30029-187	SPACER

SW.REG.BOARD ASSY <01>

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	PWBA	PB10565Q1	SW.REGULATOR BOARD ASSY,368	
	IC1	LM358P	IC	
		or BA10358	IC	
		or XRA10358	IC	
		or LMT358N	IC	
	Q1	2SC4304-LF619	TRANSISTOR	
		or 2SC3752(LM)-CB7	TRANSISTOR	
	Q2	2SC3616(MLK)	TRANSISTOR	
	Q4	2SB941P	TRANSISTOR	
	Q5	2SA1515(QR)	TRANSISTOR	
	D1	RB-156LFB	DIODE	
	D2	AU01	FR DIODE	
		or 1SR153-400-T2	FR DIODE	
	D3	AU01	FR DIODE	
		or 1SR153-400-T2	FR DIODE	
	D4	AU01Z	FR DIODE	
		or ERA18-02-T2	FR DIODE	
		or 1SR153-200-T2	FR DIODE	
	D5	MTZ27BT-77	ZENER DIODE	
	D7	AK04	DIODE	
		or 11EQS04	SB DIODE	
	D8	AK04	DIODE	
		or 11EQS04	SB DIODE	
	D9	1SS133	DIODE	
		or MA165	DIODE	
	D10	MTZ33AT-77	ZENER DIODE	
	D11	AU01Z	FR DIODE	
		or ERA18-02-T2	FR DIODE	
		or 1SR153-200-T2	FR DIODE	
	D12	11EFS2	FR DIODE	
	D13	1SS133	DIODE	
		or MA165	DIODE	
	D14	FML-12S	FR DIODE	
		or 5DL2CZ41A	FR DIODE	
		or FCF06A20	FR DIODE	
		or MA644	FR DIODE	
		or YG901C2	FR DIODE	
	D15	AU01Z	FR DIODE	
		or 1SR153-200-T2	FR DIODE	
		or ERA18-02-T2	FR DIODE	
	D16	FMB-24	BARRIER DIODE	
		or F5KQ40B	BARRIER DIODE	
		or 5GWJ2CZ42	SB DIODE	
	D18	MTZV6.2A	ZENER DIODE	
		or RD6.2ES-T1B1	ZENER DIODE	
		or UZ6.2BSA	ZENER DIODE	
	D19	RD33ES-T1B4	ZENER DIODE	
	R3	QRD161J-184	RESISTOR	180kΩ,1/6W
	R4	QRD161J-184	RESISTOR	180kΩ,1/6W
	R5	QRD161J-563	RESISTOR	56kΩ,1/6W
	R6	QRG029J-683G	OMF RESISTOR	68kΩ,2W
	R7	QRG029J-561A	OMF RESISTOR	560Ω,2W
	R8	QRG029J-331G	RESISTOR	330Ω,2W
	R9	QRX014J-R33Z	MF RESISTOR	0.33Ω,1W
	R10	QRD161J-122	RESISTOR	1.2kΩ,1/6W
	R11	QRD161J-471	RESISTOR	470Ω,1/6W
△	R12	QRZ0077-470X	FUSIBLE RESISTOR	47Ω
	R14	QRD161J-103	RESISTOR	10kΩ,1/6W
△	R15	QRZ0077-470X	FUSIBLE RESISTOR	47Ω
	R16	QRV144F-8451AY	CMF RESISTOR	8.45kΩ,1/4W
	R17	QRV144F-9761AY	CMF RESISTOR	9.76kΩ,1/4W
	R18	QRD161J-331	RESISTOR	330Ω,1/6W
	R19	QRD161J-222	RESISTOR	2.2kΩ,1/6W
	R21	QRV144F-9761AY	CMF RESISTOR	9.76kΩ,1/4W
	R22	QRV144F-1002A	CMF RESISTOR	10kΩ,1/4W
	R23	QRV144F-4023A	RESISTOR	402kΩ,1/4W

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	R24	QRD161J-471	RESISTOR	470Ω ,1／6W
	R26	QRG029J-303A	OMF RESISTOR	30kΩ ,2W
△	R27	QRG02DJ-222X	OMF RESISTOR	2.2kΩ ,2W
	R29	QRD161J-222	RESISTOR	2.2kΩ ,1／6W
△	C1	QFZ9022-333	MM CAPACITOR	0.033 μ F
△	C2	QFZ9022-333	MM CAPACITOR	0.033 μ F
△	C3	QFZ9022-333	MM CAPACITOR	0.033 μ F
△	C4	QCZ9016-222M	CAPACITOR	0.0022 μ F
△	C5	QCZ9016-222M	CAPACITOR	0.0022 μ F
△	C6	QCZ9016-222M	CAPACITOR	0.0022 μ F
△	C7	QCZ9016-222M	CAPACITOR	0.0022 μ F
	C8	PECA0738-107	E CAPACITOR	100 μ F,400V
		or PECA0793-107	E CAPACITOR	100 μ F,400V
	C9	QCZ0212-472	CAPACITOR	0.0047 μ F
		or QCY53AK-472	CAPACITOR	0.0047 μ F,1000V
	C10	QCZ0136-101Z	CAPACITOR	100pF
	C11	PECA0780-224Z	M CAPACITOR	0.22 μ F,50V
		or QFV11HJ-224	TF CAPACITOR	0.22 μ F,50V
	C12	QFLA1HJ-682Z	M CAPACITOR	0.0068 μ F,50V
	C13	QETC1HM-105	E CAPACITOR	1 μ F,50V
	C14	QEGB1AM-107	E CAPACITOR	100 μ F,10V
	C15	QETC0JM-107	E CAPACITOR	100 μ F,6.3V
	C16	QEGC1HM-396	E CAPACITOR	39 μ F,50V
	C17	QETC1VM-336	E CAPACITOR	33 μ F,35V
	C18	QCBB1HJ-271	CAPACITOR	270pF,50V
	C19	QEGB1EM-227	E CAPACITOR	220 μ F,25V
	C20	QETC1EM-227	E CAPACITOR	220 μ F,25V
	C21	QFN31HJ-103	M CAPACITOR	0.01 μ F,50V
	C22	QEGB1CM-158	E CAPACITOR	1500 μ F,16V
	C23	QETB1CM-228	E CAPACITOR	2200 μ F,16V
	C24	QETC1JM-336	E CAPACITOR	33 μ F,63V
	C25	QEGB1AM-128	E CAPACITOR	1200 μ F,10V
	C26	QETB1AM-228	E CAPACITOR	2200 μ F,10V
	C27	QFN31HJ-102	M CAPACITOR	0.001 μ F,50V
	C28	QFLA1HJ-223Z	M CAPACITOR	0.022 μ F,50V
	C29	QFV11HJ-104	MM CAPACITOR	0.1 μ F,50V
		or QFV41HJ-104	TF CAPACITOR	0.1 μ F,50V
△	C32	QCZ9016-101K	CAPACITOR	100pF
△	C33	QCZ9016-101K	CAPACITOR	100pF
△	C34	QCZ9016-222M	CAPACITOR	0.0022 μ F
△	C35	QCZ9016-222M	CAPACITOR	0.0022 μ F
	L1	PU48530-100K	COIL	10 μ H
	L2	PU60943-330K	COIL	33 μ H
	L3	PELN0270-330KZ	COIL	33 μ H
	L4	PU60943-330K	COIL	33 μ H
△	PHS1	PC111LS	PHOTO COUPLER	
△	T1	PELN0542	SW TRANS	
△	HS1	PEME0843	HEAT SINK	
△	HS2	PU61191	HEAT SINK(1)	
△	HS3	PQ44774	HEAT SINK	

#△	REF No.	PART No.	PART NAME, DESCRIPTION
	J1	PEMC0742-010	CONNECTOR(BOARD TO BOARD)
	J2	PEMC0742-006	CONNECTOR(BOARD TO BOARD)
△	LF1	PU60347	LINE FILTER
△		or PU61108	LINE FILTER
△	LF2	PELN0255	LINE FILTER
△		or PU59707	LINE FILTER
	SCW1	SDSG3008Z	SCREW
	SCW2	DPSP3008Z	SCREW, × 2
	SCW3	SDSG3008Z	SCREW
	CN1	PU60417-105	CONNECTOR
△	CP1	ICP-N10	CIRCUIT PROTECTOR
△	CP6	ICP-F25	CIRCUIT PROTECTOR

REGULATOR BOARD(1) ASSY <02>

PWBA	PB10565Q2	REGULATOR(1) BOARD ASSY,368	
IC2	LM358P	IC	
	or XRA10358	IC	
	or BA10358	IC	
	or LMT358N	IC	
Q31	2SD2159(UV)	TRANSISTOR	
Q32	2SB1068(KU)	TRANSISTOR	
Q34	2SD1855(EF)	TRANSISTOR	
Q36	2SD1796	TRANSISTOR	
	or 2SD1856	TRANSISTOR	
D35	UZ5.1BSC	ZENER DIODE	
	or RD5.1ES-T1B3	ZENER DIODE	
	or MTZV5.1C	ZENER DIODE	
R31	QRD161J-102	RESISTOR	1kΩ ,1／6W
R32	QRD161J-471	RESISTOR	470Ω ,1／6W
R33	QRD161J-102	RESISTOR	1kΩ ,1／6W
R35	QRD161J-222	RESISTOR	2.2kΩ ,1／6W
R36	QVZ3521-222Z	V RESISTOR, SWD 5V ADJ	2.2kΩ
	or QVZ3521-222	V RESISTOR, SWD 5V ADJ	2.2kΩ
R37	QRD161J-123	RESISTOR	12kΩ ,1／6W
R38	QRD161J-102	RESISTOR	1kΩ ,1／6W
R39	QRD161J-112	RESISTOR	1.1kΩ ,1／6W
R40	QRD161J-103	RESISTOR	10kΩ ,1／6W
R41	QRD161J-102	RESISTOR	1kΩ ,1／6W

01 02 18 04

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	R45	QRD161J-752	RESISTOR	7.5kΩ ,1/6W
	R46	QRD161J-103	RESISTOR	10kΩ ,1/6W
	R47	QRD161J-682	RESISTOR	6.8kΩ ,1/6W
	C41	QETC0JM-107	E CAPACITOR	100 μ F,6.3V
	C42	QEK60JM-107	E CAPACITOR	100 μ F,6.3V
	C43	QEK61CM-107	E CAPACITOR	100 μ F,16V
	C44	QEK61CM-107	E CAPACITOR	100 μ F,16V
	C45	QFN31HJ-103	M CAPACITOR	0.01 μ F,50V
	C46	QFN31HJ-102	M CAPACITOR	0.001 μ F,50V
	C47	QEK61CM-107	E CAPACITOR	100 μ F,16V
⚠	HS1	PQ44774-2	HEAT SINK	
	J3	PEMC0742-008	CONNECTOR(BOARD TO BOARD)	
	SCW1	SDSG3008Z	SCREW	
	CN2	PU58844-105	CONNECTOR	
	CN3	PU60417-109	CONNECTOR	
	CN5	PU60417-105	CONNECTOR	
⚠	CP4	ICP-N10	CIRCUIT PROTECTOR	
⚠	CP5	ICP-N25	CIRCUIT PROTECTOR	

REGULATOR BOARD(2) ASSY <18>

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	PWBA	PB10565Q3	REGULATOR(2) BOARD ASSY,368	
	Q35	2SB1068(KU)	TRANSISTOR	
	R43	QRD161J-272	RESISTOR	2.7kΩ ,1/6W
	R44	QRD161J-103	RESISTOR	10kΩ ,1/6W
	C48	QETC1CM-107	E CAPACITOR	100 μ F,16V
	C49	QETC1AM-107	E CAPACITOR	100 μ F,10V
	CN4	PU58844-104	CONNECTOR	
	CN6	PU60417-103	CONNECTOR	
	CN9	PU58844-102	CONNECTOR	
⚠	CP7	ICP-N25	CIRCUIT PROTECTOR, 368E	

A/S/M BOARD ASSY <04>

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	PWBA	PB10703H1	A/S/M BOARD ASSY, 368E	
⚠	TB1	PQ21440-2	TERMINAL BOARD, 368E	
	BKT1	PQ44693-1-1	BRACKET(1), × 2	
	BKT2	PQ44694-1-2	BRACKET(2)	
	CL1	PEME0802	CLAMP, × 4	
	JA1	PEMC0761	PIN JACK(SW)	
	JA2	PEMC0760	PIN JACK	
	SCW1	SDSF2608Z	SCREW	
	SCW2	SDSG2606Z	SCREW, × 3	
	TP	PU55774	TEST PIN, × 2	
	CN201	PU58844-5	CONNECTOR	
	CN202	PU60417-6	CONNECTOR	
	CN301	PU60417-3	CONNECTOR	

AUDIO SW SECTION

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	IC1	MC14052BCP	IC	
	IC2	XRA15218	IC	
		or BA15218	IC	
	IC3	XRA15218	IC	
		or BA15218	IC	
	IC5	XRA15218	IC	
		or BA15218	IC	
	Q1	2SC3311A(RS)	TRANSISTOR	
	Q4	2SC1740S(RS)	TRANSISTOR	
		or 2SC3199(G)	TRANSISTOR	
	D6	1SS133	DIODE	
		or MA165	DIODE	
	D7	1SS133	DIODE	
		or MA165	DIODE	
	D11	1SS133	DIODE	
		or MA165	DIODE	
	R1	QRD161J-154	RESISTOR	150kΩ ,1/6W
	R2	QRD161J-154	RESISTOR	150kΩ ,1/6W
	R3	QRD161J-152	RESISTOR	1.5kΩ ,1/6W
	R4	QRD161J-152	RESISTOR	1.5kΩ ,1/6W

#△REF No.	PART No.	PART NAME,	DESCRIPTION
R5	QRD161J-152	RESISTOR	1.5kΩ,1/6W
R6	QRD161J-152	RESISTOR	1.5kΩ,1/6W
R7	QRD161J-152	RESISTOR	1.5kΩ,1/6W
R8	QRD161J-152	RESISTOR	1.5kΩ,1/6W
R9	QRD161J-152	RESISTOR	1.5kΩ,1/6W
R10	QRD161J-152	RESISTOR	1.5kΩ,1/6W
R11	QRD161J-273	RESISTOR	27kΩ,1/6W
R12	QRD161J-273	RESISTOR	27kΩ,1/6W
R13	QRD161J-333	RESISTOR	33kΩ,1/6W
R14	QRD161J-822	RESISTOR	8.2kΩ,1/6W
R15	QRD161J-473	RESISTOR	47kΩ,1/6W
R18	QRD161J-473	RESISTOR	47kΩ,1/6W
R20	QRD161J-154	RESISTOR	150kΩ,1/6W
R21	QRD161J-184	RESISTOR	180kΩ,1/6W
R22	QRD161J-154	RESISTOR	150kΩ,1/6W
R23	QRD161J-184	RESISTOR	180kΩ,1/6W
R24	QRD161J-103	RESISTOR	10kΩ,1/6W
R25	QRD161J-103	RESISTOR	10kΩ,1/6W
R26	QRD161J-362	RESISTOR	3.6kΩ,1/6W
R27	QRD161J-362	RESISTOR	3.6kΩ,1/6W
R28	QRD161J-683	RESISTOR	68kΩ,1/6W
R29	QRD161J-823	RESISTOR	82kΩ,1/6W
R30	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R31	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R32	QRD161J-223	RESISTOR	22kΩ,1/6W
R33	QRD161J-273	RESISTOR	27kΩ,1/6W
R34	QRD161J-823	RESISTOR	82kΩ,1/6W
R35	QRD161J-221	RESISTOR	220Ω,1/6W
R36	QRD161J-202	RESISTOR	2kΩ,1/6W
R37	QRD161J-473	RESISTOR	47kΩ,1/6W
R38	QRD161J-102	RESISTOR	1kΩ,1/6W
R43	QRD161J-473	RESISTOR	47kΩ,1/6W
R44	QRD161J-563	RESISTOR	56kΩ,1/6W
R45	QRD161J-473	RESISTOR	47kΩ,1/6W
R46	QRD161J-563	RESISTOR	56kΩ,1/6W
R47	QRD161J-102	RESISTOR	1kΩ,1/6W
R48	QRD161J-680	RESISTOR	68Ω,1/6W
R49	QRD161J-680	RESISTOR	68Ω,1/6W
R50	QRD161J-103	RESISTOR	10kΩ,1/6W
R51	QRD161J-103	RESISTOR	10kΩ,1/6W
R52	QRD161J-122	RESISTOR, 368E	1.2kΩ,1/6W
R53	QRD161J-122	RESISTOR, 368E	1.2kΩ,1/6W
R54	QRD161J-103	RESISTOR	10kΩ,1/6W
R55	QRD161J-103	RESISTOR	10kΩ,1/6W
R61	QRD161J-472	RESISTOR, 368E	4.7kΩ,1/6W
R62	QRD161J-472	RESISTOR, 368E	4.7kΩ,1/6W
C3	QETC1CM-476	E CAPACITOR	47μF,16V
C4	QETC1CM-476	E CAPACITOR	47μF,16V
C5	QETC1CM-106	E CAPACITOR	10μF,16V
C6	QETC1CM-106	E CAPACITOR	10μF,16V
C7	QETC1CM-476	E CAPACITOR	47μF,16V
C8	QETC1CM-226	E CAPACITOR	22μF,16V
C9	QETC1CM-226	E CAPACITOR	22μF,16V
C10	QETC1CM-106	E CAPACITOR	10μF,16V
C11	QETC1CM-106	E CAPACITOR	10μF,16V
C12	QETC1EM-475	E CAPACITOR	4.7μF,25V
C13	QETC1HM-105	E CAPACITOR	1μF,50V
C14	QETC1HM-105	E CAPACITOR	1μF,50V
C15	QCBB1HJ-151	CAPACITOR	150pF,50V
C16	QETC1EM-475	E CAPACITOR	4.7μF,25V
C17	QETC1HM-105	E CAPACITOR	1μF,50V
C18	QETC1CM-476	E CAPACITOR	47μF,16V
C21	QETC1CM-476	E CAPACITOR	47μF,16V
C22	QEK61CM-476	E CAPACITOR	47μF,16V
C23	QETC1CM-476	E CAPACITOR	47μF,16V
C24	QETC1CM-476	E CAPACITOR	47μF,16V
C25	QETC1CM-106	E CAPACITOR	10μF,16V
C26	QETC1CM-106	E CAPACITOR	10μF,16V
C27	QETC1CM-476	E CAPACITOR	47μF,16V
C28	QETC1CM-476	E CAPACITOR	47μF,16V
L3	PU59152-2R2J	COIL	2.2μH
CN1	PU58844-2	CONNECTOR, 368E	
CN2	PU58844-6	CONNECTOR	
CN3	PU58844-5	CONNECTOR	
CN4	PEMC0714-015	CONNECTOR	
CN5	PU58844-3	CONNECTOR	
CN10	PU58844-3	CONNECTOR	
CN11	PU58844-2	CONNECTOR	

SERVO SECTION

IC401	HD49780NT	IC	
	or HD49780ANT	IC	
IC451	BA7039	IC	
	or XRA7039	IC	
D402	1SS133	DIODE	
	or MA165	DIODE	
D403	1SS133	DIODE	
	or MA165	DIODE	
R401	QRD161J-122	RESISTOR	1.2kΩ,1/6W
R402	QRD161J-102	RESISTOR	1kΩ,1/6W
R403	QRD161J-105	RESISTOR	1MΩ,1/6W
R404	QRD161J-103	RESISTOR	10kΩ,1/6W
R405	QRD161J-474	RESISTOR	470kΩ,1/6W
R406	QRD161J-102	RESISTOR	1kΩ,1/6W
R407	QRD161J-102	RESISTOR	1kΩ,1/6W
R408	QRD161J-102	RESISTOR	1kΩ,1/6W
R409	QRD161J-102	RESISTOR	1kΩ,1/6W
R410	QRD161J-223	RESISTOR	22kΩ,1/6W
R411	QRD161J-225	RESISTOR	2.2MΩ,1/6W

0 4

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	R412	QRD161J-473	RESISTOR	47kΩ,1/6W
	R413	QRD161J-222	RESISTOR	2.2kΩ,1/6W
	R414	QRD161J-122	RESISTOR	1.2kΩ,1/6W
	R415	QRD161J-332	RESISTOR	3.3kΩ,1/6W
	R416	QRD161J-223	RESISTOR	22kΩ,1/6W
	R417	QRD161J-223	RESISTOR	22kΩ,1/6W
	R418	QRD161J-105	RESISTOR	1MΩ,1/6W
	R419	QRD161J-273	RESISTOR	27kΩ,1/6W
	R421	QRD161J-394	RESISTOR	390kΩ,1/6W
	R423	QRD161J-105	RESISTOR	1MΩ,1/6W
	R424	QRD161J-273	RESISTOR	27kΩ,1/6W
	R428	QRD161J-564	RESISTOR	560kΩ,1/6W
	R429	QRD161J-183	RESISTOR	18kΩ,1/6W
	R430	QRD161J-335	RESISTOR	3.3MΩ,1/6W
	R431	QRD161J-334	RESISTOR	330kΩ,1/6W
	R432	QRD161J-822	RESISTOR	8.2kΩ,1/6W
	R436	QRD161J-102	RESISTOR	1kΩ,1/6W
	R438	QRD161J-104	RESISTOR	100kΩ,1/6W
	R451	QRD161J-102	RESISTOR	1kΩ,1/6W
	R452	QRD161J-102	RESISTOR	1kΩ,1/6W
	R453	QRD161J-102	RESISTOR	1kΩ,1/6W
	R454	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R455	QRD161J-562	RESISTOR	5.6kΩ,1/6W
	R456	QRD161J-274	RESISTOR	270kΩ,1/6W
	C401	QCBB1HJ-102	CAPACITOR	0.001μF,50V
	C402	QEK61AM-226	E CAPACITOR	22μF,10V
	C403	QEK61AM-226	E CAPACITOR	22μF,10V
	C404	QCBB1HJ-181	CAPACITOR	180pF,50V
	C405	QCBB1HJ-102	CAPACITOR	0.001μF,50V
	C406	QFV71HJ-223	TF CAPACITOR	0.022μF,50V
		or QFV11HJ-223	TF CAPACITOR	0.022μF,50V
	C407	QCBB1HJ-102	CAPACITOR	0.001μF,50V
	C408	QFV71HJ-563	TF CAPACITOR	0.056μF,50V
		or QFV11HJ-563	TF CAPACITOR	0.056μF,50V
	C409	QCBB1HJ-102	CAPACITOR	0.001μF,50V
	C410	QCVB1CM-103	CAPACITOR	0.01μF,16V
	C411	QCVB1CM-103	CAPACITOR	0.01μF,16V
	C412	QEK61CM-106	E CAPACITOR	10μF,16V
	C413	QFV71HJ-224	TF CAPACITOR	0.22μF,50V
		or QFV11HJ-224	TF CAPACITOR	0.22μF,50V
	C414	QCC31CK-223	CAPACITOR	0.022μF,16V
	C415	QEK61EM-475	E CAPACITOR	4.7μF,25V
	C416	QEK61EM-475	E CAPACITOR	4.7μF,25V
	C417	QEK61CM-106	E CAPACITOR	10μF,16V
	C418	QEK61CM-106	E CAPACITOR	10μF,16V
	C419	QFV71HJ-223	TF CAPACITOR	0.022μF,50V
		or QFV11HJ-223	TF CAPACITOR	0.022μF,50V
	C420	QFV71HJ-184	TF CAPACITOR	0.18μF,50V
		or QFV11HJ-184	TF CAPACITOR	0.18μF,50V
	C421	QCBB1HJ-471	CAPACITOR	470pF,50V
	C451	QCVB1CM-103	CAPACITOR	0.01μF,16V
	C452	QCC31CK-104	CAPACITOR	0.1μF,16V
	C453	QCVB1CM-103	CAPACITOR	0.01μF,16V
	C454	QCVB1CM-103	CAPACITOR	0.01μF,16V
	C455	QCVB1CM-103	CAPACITOR	0.01μF,16V

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	C456	QCVB1CM-103	CAPACITOR	0.01μF,16V
	C458	QEK61CM-106	E CAPACITOR	10μF,16V
	C459	QFV71HJ-104	TF CAPACITOR	0.1μF,50V
		or QFV11HJ-104	MM CAPACITOR	0.1μF,50V
	L451	PU59152-270J	COIL	27μH
	TP401	PU55774	TEST PIN	
	TP411	PU55774	TEST PIN	
	CN401	PU58844-3	CONNECTOR	
	CN402	PU59555-4	CONNECTOR	
	CN403	PU58844-8	CONNECTOR	
	CN404	PEMC0714-015	CONNECTOR	
	CN406	PU58844-2R	CONNECTOR	
⚠	CP401	ICP-N15	CIRCUIT PROTECTOR	

MECHACON SECTION

REF No.	PART No.	PART NAME, DESCRIPTION
IC601	M37525M4-121SP	IC, 368E
	or M37525E4-121SP	IC, 368E
IC602	S-6731A-004	IC
	or CAT35C104P-004	IC
IC603	M50255P	IC
Q601	2SB1256	TRANSISTOR
Q602	2SC3199(GB)-TJK	TRANSISTOR
Q604	DTC124ES	TRANSISTOR
D601	1SS133	DIODE
	or MA165	DIODE
D602	11ES2	DIODE
	or 1SR139-200	DIODE
	or ERA15-02	DIODE
	or S5688G	DIODE
D603	1SS133	DIODE
	or MA165	DIODE
D604	MTZ7.5B	ZENER DIODE
	or HZS7.5EB2	ZENER DIODE
	or UZ7.5BSB	ZENER DIODE
D605	1SS133	DIODE
	or MA165	DIODE
D606	1SS133	DIODE
	or MA165	DIODE
D607	1SS133	DIODE
	or MA165	DIODE
D608	11ES2	DIODE
	or S5688G	DIODE
	or 1SR139-200	DIODE
	or ERA15-02	DIODE

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	D609	1SS133	DIODE	
		or MA165	DIODE	
	D610	MTZ7.5B	ZENER DIODE	
		or HZS7.5EB2	ZENER DIODE	
	R601	QRD161J-332	RESISTOR	3.3kΩ,1/6W
	R602	QRD161J-332	RESISTOR	3.3kΩ,1/6W
	R603	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R604	QRD161J-102	RESISTOR	1kΩ,1/6W
	R605	QRD161J-102	RESISTOR	1kΩ,1/6W
	R606	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R607	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R608	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R609	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R612	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R613	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R614	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R615	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R616	QRD161J-103	RESISTOR	10kΩ,1/6W
	R617	QRD161J-102	RESISTOR	1kΩ,1/6W
	R618	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R619	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R620	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R621	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R622	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R623	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R624	QRD161J-103	RESISTOR	10kΩ,1/6W
	R625	QRD161J-105	RESISTOR	1MΩ,1/6W
	R626	QRD161J-681	RESISTOR	680Ω,1/6W
	R627	QRD161J-102	RESISTOR	1kΩ,1/6W
	R628	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R629	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R630	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R631	QRD161J-102	RESISTOR	1kΩ,1/6W
	R632	QRD161J-102	RESISTOR	1kΩ,1/6W
	R633	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R634	QRD161J-103	RESISTOR	10kΩ,1/6W
	R635	QRD161J-563	RESISTOR	56kΩ,1/6W
	R636	QRD161J-154	RESISTOR	150kΩ,1/6W
	R637	QRD161J-333	RESISTOR	33kΩ,1/6W
	R638	QRD161J-303	RESISTOR	30kΩ,1/6W
	R639	QRD161J-224	RESISTOR	220kΩ,1/6W
	R640	QRD161J-222	RESISTOR	2.2kΩ,1/6W
	R641	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R642	QRD161J-103	RESISTOR	10kΩ,1/6W
	R643	QRD161J-333	RESISTOR	33kΩ,1/6W
	R645	QRD161J-471	RESISTOR	470Ω,1/6W
	R646	QRD161J-103	RESISTOR	10kΩ,1/6W
	R647	QRD161J-333	RESISTOR	33kΩ,1/6W
	R648	QRD161J-473	RESISTOR	47kΩ,1/6W
	R649	QRD161J-102	RESISTOR	1kΩ,1/6W
	R650	QRD161J-102	RESISTOR	1kΩ,1/6W
	R651	QRD161J-821	RESISTOR	820Ω,1/6W
	R652	QRD161J-391	RESISTOR	390Ω,1/6W
	R661	QRD161J-0R0	RESISTOR	0Ω,1/6W
	R662	QRD161J-0R0	RESISTOR	0Ω,1/6W
	RA601	QRB045J-103M	RESISTOR ARRAY	10kΩ
		or QRB045J-103F	RESISTOR ARRAY	10kΩ
	C601	QCFB1EZ-223	CAPACITOR	0.022μF,25V
	C602	QEK61EM-335	E CAPACITOR	3.3μF,25V
	C603	QCC11EJ-104	CAPACITOR	0.1μF,25V
	C604	QEK61HM-105	E CAPACITOR	1μF,50V
	C605	QETC0JM-107	E CAPACITOR	100μF,6.3V
	C606	QCBB1HJ-121	CAPACITOR	120pF,50V
	C608	QCC11EJ-104	CAPACITOR	0.1μF,25V
	C609	QCBB1HJ-101	CAPACITOR	100pF,50V
	C610	QCSB1HJ-220	CAPACITOR	22pF,50V
	C611	QCC11EJ-104	CAPACITOR	0.1μF,25V
	C612	QCBB1HJ-101	CAPACITOR	100pF,50V
	L601	PU59152-2R2J	COIL	2.2μH
△	CF601	PEVB0340	RESONATOR	
	SKT1	PGZ01428-064	IC SOKET(IC601), 368E	
		or PGZ01957-064	IC SOCKET	
	CN601	PEMC0722-018	WIRE TRAP	
		or PEMC0753-018	WIRE TRAP	
	CN602	PU59555-4	CONNECTOR	
	CN604	PU60417-8	CONNECTOR	
	CN605	PU60417-9	CONNECTOR	
	CN607	PU60417-4	CONNECTOR	
	CN609	PU60417-7	CONNECTOR	
	CN610	PEMC0714-011	CONNECTOR	
	CN612	PU60417-4	CONNECTOR	
	CN613	PU58844-4	CONNECTOR	
	CN614	PU58844-2	CONNECTOR	
	CN615	PU58844-2	CONNECTOR	
	CN702	PU60417-4	CONNECTOR	
△	CP601	ICP-N25	CIRCUIT PROTECTOR	
△	CP602	ICP-N38	CIRCUIT PROTECTOR	

VIDEO UNIT BOARD ASSY <05>

PWBA	PB10580C-01	VIDEO UNIT BOARD ASSY
TP	PU57545	TEST PIN, ×11
SLD1	PU61177-1-2	SHIELD CASE
SLD2	PU61178	SHIELD PLATE

Y SECTION

#△REF No.	PART No.	PART NAME, DESCRIPTION	
IC401	PB20432D-02-SS	Y MODULE BOARD ASSY	
IC402	CXL5003M	IC	
IC404	MC74HC4538AN	IC	
IC405	CD4066BE	IC	
	or BU4066B	IC	
IC406	TC4S81F	IC	
IC407	TC4S01F	IC	
IC408	TC4S30F	IC	
IC409	TC4S71F	IC	
Q401	2SC4081(QRS)	TRANSISTOR	
Q402	2SC4081(QRS)	TRANSISTOR	
Q403	2SC4081(QRS)	TRANSISTOR	
Q404	2SC4081(QRS)	TRANSISTOR	
Q407	2SA1576(QRS)	TRANSISTOR	
Q408	DTC144WU	TRANSISTOR	
Q409	2SA1576(QRS)	TRANSISTOR	
Q411	DTA144EU	TRANSISTOR	
Q413	DTC124EU	TRANSISTOR	
Q414	DTC144WU	TRANSISTOR	
Q415	DTC144WU	TRANSISTOR	
D401	DAP202U	DIODE	
D404	DAN202U	DIODE	
D405	DAN202U	DIODE	
D406	DAN202U	DIODE	
D407	DAN202U	DIODE	
D408	DAP202U	DIODE	
D411	1SS133	DIODE	
	or MA165	DIODE	
R401	QRS188J-122YN	RESISTOR	1.2kΩ,1/8W
R402	QRS188J-272YN	RESISTOR	2.7kΩ,1/8W
R403	QRSA08J-392YN	RESISTOR	3.9kΩ,1/10W
R404	QRSA08J-821YN	RESISTOR	820Ω,1/10W
R405	QRS188J-182YN	RESISTOR	1.8kΩ,1/8W
R406	QRSA08J-271YN	RESISTOR	270Ω,1/10W
R407	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
R408	QRSA08J-105YN	RESISTOR	1MΩ,1/10W
R409	QRSA08J-475YN	RESISTOR	4.7MΩ,1/10W
R410	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R412	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
R413	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R415	QRSA08J-242YN	RESISTOR	2.4kΩ,1/10W
R416	QVZ3518-151	V RESISTOR,SUB EMPHA IN	150Ω
R417	QRSA08J-391YN	RESISTOR	390Ω,1/10W
R419	QRD161J-223	RESISTOR	22kΩ,1/6W
R420	QRSA08J-101YN	RESISTOR	100Ω,1/10W
R422	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
R424	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
R425	QRSA08F-431YN	RESISTOR	430Ω,1/10W
R427	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R428	QRSA08J-392YN	RESISTOR	3.9kΩ,1/10W
R429	QRSA08J-274YN	RESISTOR	270kΩ,1/10W
R430	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R431	QRSA08J-475YN	RESISTOR	4.7MΩ,1/10W
R433	QRSA08J-563YN	RESISTOR	56kΩ,1/10W
R434	QRSA08J-393YN	RESISTOR	39kΩ,1/10W
R435	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
R436	QRSA08J-223YN	RESISTOR	22kΩ,1/10W
R437	QRSA08J-183YN	RESISTOR	18kΩ,1/10W
R438	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W
R439	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W
R440	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
R441	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R443	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R444	QVZ3518-102	V RESISTOR,YNR BALANCE	1kΩ
R445	QRSA08J-242YN	RESISTOR	2.4kΩ,1/10W
R446	QRSA08J-242YN	RESISTOR	2.4kΩ,1/10W
R447	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R448	QRS188J-222YN	RESISTOR	2.2kΩ,1/8W
R449	QRSA08J-512YN	RESISTOR	5.1kΩ,1/10W
R450	QRS188J-101YN	RESISTOR	100Ω,1/8W
R451	QRSA08J-104YN	RESISTOR	100kΩ,1/10W
R453	QRSA08J-683YN	RESISTOR	68kΩ,1/10W
R454	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R455	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R456	QRSA08J-241YN	RESISTOR	240Ω,1/10W
C401	QETC0JM-476	E CAPACITOR	47μF,6.3V
C402	QCSA1HJ-7R0	CAPACITOR	7pF,50V
C403	QCYA1HK-103	CAPACITOR	0.01μF,50V
C404	QCYA1EK-104	CAPACITOR	0.1μF,25V
C405	QCYA1HK-103	CAPACITOR	0.01μF,50V
C406	QETC1HM-474	E CAPACITOR	0.47μF,50V
C407	QCYA1HK-103	CAPACITOR	0.01μF,50V
C408	QETC0JM-476	E CAPACITOR	47μF,6.3V
C409	QCYA1HK-103	CAPACITOR	0.01μF,50V
C410	QETC1CM-476	E CAPACITOR	47μF,16V
C411	QCYA1HK-103	CAPACITOR	0.01μF,50V
C412	QCYA1HK-103	CAPACITOR	0.01μF,50V
C413	QETC1CM-476	E CAPACITOR	47μF,16V
C414	QCYA1HK-223	CAPACITOR	0.022μF,50V
C415	QETC0JM-107	E CAPACITOR	100μF,6.3V
C416	QETC1CM-226	E CAPACITOR	22μF,16V
C417	QETC0JM-107	E CAPACITOR	100μF,6.3V
C418	QETC1HM-225	E CAPACITOR	2.2μF,50V
C419	QETC1HM-225	E CAPACITOR	2.2μF,50V
C420	QETC1EM-475	E CAPACITOR	4.7μF,25V
C421	QETC0JM-476	E CAPACITOR	47μF,6.3V
C422	QCYA1HK-103	CAPACITOR	0.01μF,50V
C423	QETC0JM-107	E CAPACITOR	100μF,6.3V
C424	QCSA1HJ-100	CAPACITOR	10pF,50V
C425	QCTA1CH-181	CAPACITOR	180pF
C426	QCTA1CH-471	CAPACITOR	470pF
C429	QCSA1HJ-300	CAPACITOR	30pF,50V

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
C430	QCSA1HJ-620	CAPACITOR	62pF,50V
C431	QCSA1HJ-151	CAPACITOR	150pF,50V
C433	QCYA1HK-473	CAPACITOR	0.047μF,50V
C435	QETC0JM-107	E CAPACITOR	100μF,6.3V
C436	QETC1EM-475	E CAPACITOR	4.7μF,25V
C437	QETC1CM-106	E CAPACITOR	10μF,16V
C438	QETC1EM-475	E CAPACITOR	4.7μF,25V
C439	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C440	QCYA1HK-103	CAPACITOR	0.01μF,50V
C441	QCSA1HJ-271	CAPACITOR	270pF,50V
C442	QCSA1HJ-102	CAPACITOR	0.001μF,50V
C443	QETC1CM-106	E CAPACITOR	10μF,16V
C445	QCYA1HK-103	CAPACITOR	0.01μF,50V
C450	QCSA1HJ-101	CAPACITOR	100pF,50V
C451	QCSA1HJ-221	CAPACITOR	220pF,50V
C452	QCYA1EK-104	CAPACITOR	0.1μF,25V
C453	QCYA1EK-104	CAPACITOR	0.1μF,25V
C454	QCYA1EK-104	CAPACITOR	0.1μF,25V
C456	QCYA1EK-104	CAPACITOR	0.1μF,25V
C457	QCYA1EK-104	CAPACITOR	0.1μF,25V
C458	QCYA1EK-104	CAPACITOR	0.1μF,25V
C459	QETC0JM-227	E CAPACITOR	220μF,6.3V
C460	QCTA1CH-680	CAPACITOR	68pF
C461	QCSA1HJ-221	CAPACITOR	220pF,50V
L401	PU48530-101K	COIL	100μH
L402	PU48530-101K	COIL	100μH
L403	PU59153-101K	COIL	100μH
L404	PU59153-101K	COIL	100μH
L405	PU59988-181J	COIL	180μH
L406	PU59153-101K	COIL	100μH
L407	PU59153-101K	COIL	100μH
L408	PU59988-120J	COIL	12μH
L410	PU59988-151JY	COIL	150μH
L411	PU48530-471K	COIL	470μH
LPF401	PELN0566	LOW PASS FILTER	
LPF402	PU60737	LOW PASS FILTER	
LPF403	PU60812	LOW PASS FILTER	
CN401	PU60910-12	CONNECTOR	
	or PU60727-12	CONNECTOR	
CN402	PU60910-9	WIRE TRAP	
	or PU60727-9	CONNECTOR	

COLOR SECTUIN

IC501	PB20463A-02-SS	COLOR MODULE BOARD ASSY
IC503	TC4S01F	IC

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
Q501	2SA1576(QRS)	TRANSISTOR	
Q502	DTC144WU	TRANSISTOR	
Q504	2SC4081(QRS)	TRANSISTOR	
Q505	DTC144WU	TRANSISTOR	
Q506	DTC144WU	TRANSISTOR	
Q509	DTA124EU	TRANSISTOR	
Q510	DTC144WU	TRANSISTOR	
Q513	DTC114EU	TRANSISTOR	
Q514	DTC144WU	TRANSISTOR	
Q515	DTC144WU	TRANSISTOR	
Q516	2SC4081(QRS)	TRANSISTOR	
Q517	2SC4081(QRS)	TRANSISTOR	
Q518	DTA114EU	TRANSISTOR	
Q519	2SC4081(QRS)	TRANSISTOR	
Q520	2SC4081(QRS)	TRANSISTOR	
Q521	2SC4081(QRS)	TRANSISTOR	
Q524	2SA1576(QRS)	TRANSISTOR	
Q525	2SA1576(QRS)	TRANSISTOR	
Q528	DTC144WU	TRANSISTOR	
Q529	DTC144WU	TRANSISTOR	
Q530	DTC144WU	TRANSISTOR	
D505	DAN202U	DIODE	
D507	DAN202U	DIODE	
D511	DAN202U	DIODE	
R503	QRSA08J-331YN	RESISTOR	330Ω,1/10W
R504	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R505	QRD161J-471	RESISTOR	470Ω,1/6W
R506	QRSA08J-301YN	RESISTOR	300Ω,1/10W
R507	QRSA08J-911YN	RESISTOR	910Ω,1/10W
R508	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
R509	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
R511	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R512	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R513	QRSA08J-124YN	RESISTOR	120kΩ,1/10W
R514	QRSA08J-125YN	RESISTOR	1.2MΩ,1/10W
R515	QRSA08J-332YN	RESISTOR	3.3kΩ,1/10W
R516	QRSA08J-393YN	RESISTOR	39kΩ,1/10W
R518	QRD161J-103	RESISTOR	10kΩ,1/6W
R519	QRSA08J-104YN	RESISTOR	100kΩ,1/10W
R520	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R522	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R523	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
R524	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R526	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
R527	QRSA08J-681YN	RESISTOR	680Ω,1/10W
R528	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
R529	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
R530	QRSA08J-561YN	RESISTOR	560Ω,1/10W
R531	QRS188J-104YN	RESISTOR	100kΩ,1/8W
R532	QRSA08J-104YN	RESISTOR	100kΩ,1/10W
R533	QRSA08J-225YN	RESISTOR	2.2MΩ,1/10W
R535	QRD161J-122	RESISTOR	1.2kΩ,1/6W
R536	QRSA08J-182YN	RESISTOR	1.8kΩ,1/10W

05

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	R537	QRS188J-182YN	RESISTOR	1.8kΩ,1/8W
	R538	QRS188J-102YN	RESISTOR	1kΩ,1/8W
	R540	QRD161J-562	RESISTOR	5.6kΩ,1/6W
	R541	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W
	R542	QRSA08J-332YN	RESISTOR	3.3kΩ,1/10W
	R543	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
	R544	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
	R545	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
	R546	QRSA08J-561YN	RESISTOR	560Ω,1/10W
	R547	QRSA08J-471YN	RESISTOR	470Ω,1/10W
	R548	QRSA08J-561YN	RESISTOR	560Ω,1/10W
	R551	QRS188J-102YN	RESISTOR	1kΩ,1/8W
	R552	QRS188J-102YN	RESISTOR	1kΩ,1/8W
	R553	QRSA08J-561YN	RESISTOR	560Ω,1/10W
	R554	QRSA08J-471YN	RESISTOR	470Ω,1/10W
	R555	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
	R556	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
	R557	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
	R563	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
	R564	QRD161J-103	RESISTOR	10kΩ,1/6W
	R565	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
	C501	QCSA1HJ-100	CAPACITOR	10pF,50V
	C502	QCFA1HZ-103	CAPACITOR	0.01μF,50V
	C503	QCYA1HK-103	CAPACITOR	0.01μF,50V
	C504	QCSA1HJ-220	CAPACITOR	22pF,50V
	C506	QCFA1HZ-103	CAPACITOR	0.01μF,50V
	C507	QCSA1HJ-331	CAPACITOR	330pF,50V
	C508	QCSA1HJ-121	CAPACITOR	120pF,50V
	C509	QETC0JM-107	E CAPACITOR	100μF,6.3V
	C510	QCSA1HJ-220	CAPACITOR	22pF,50V
	C511	QETC1HM-105	E CAPACITOR	1μF,50V
	C512	QETC1EM-335	E CAPACITOR	3.3μF,25V
	C513	QETC1HM-105	E CAPACITOR	1μF,50V
	C514	QCYA1HK-103	CAPACITOR	0.01μF,50V
	C517	QFN31HJ-823	M CAPACITOR	0.082μF,50V
	C518	QCYA1HJ-822	CAPACITOR	0.0082μF,50V
	C519	QETC1EM-475	E CAPACITOR	4.7μF,25V
	C520	QCYA1HJ-822	CAPACITOR	0.0082μF,50V
	C521	QETC1HM-335	E CAPACITOR	3.3μF,50V
	C522	QCSA1HJ-102	CAPACITOR	0.001μF,50V
	C523	QETC1HM-474	E CAPACITOR	0.47μF,50V
	C524	QETC1HM-224	E CAPACITOR	0.22μF,50V
	C525	QCFA1HZ-103	CAPACITOR	0.01μF,50V
	C526	QETC0JM-107	E CAPACITOR	100μF,6.3V
	C527	QETC1HM-105	E CAPACITOR	1μF,50V
	C528	QETC1HM-104	E CAPACITOR	0.1μF,50V
	C529	QETC1HM-105	E CAPACITOR	1μF,50V
	C530	QETC1HM-105	E CAPACITOR	1μF,50V
	C531	QCYA1HK-223	CAPACITOR	0.022μF,50V
	C534	QETC0JM-107	E CAPACITOR	100μF,6.3V
	C535	QCFA1HZ-103	CAPACITOR	0.01μF,50V
	C536	QCY81HK-103	CAPACITOR	0.01μF,50V
	C537	QCSA1HJ-470	CAPACITOR	47pF,50V
	C538	QCFA1HZ-103	CAPACITOR	0.01μF,50V
	C539	QETC0JM-476	E CAPACITOR	47μF,6.3V

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	C540	QCYA1HK-103	CAPACITOR	0.01μF,50V
	C541	QCSA1HJ-330	CAPACITOR	33pF,50V
	C542	QCSA1HJ-390	CAPACITOR	39pF,50V
	C543	QFN31HJ-473	M CAPACITOR	0.047μF,50V
	C544	QCSA1HJ-560	CAPACITOR	56pF,50V
	C546	QCYA1HK-103	CAPACITOR	0.01μF,50V
	C550	QCYA1HK-682	CAPACITOR	0.0068μF,50V
	C551	QCYA1HK-222	CAPACITOR	0.0022μF,50V
	C552	QCSA1HJ-820	CAPACITOR	82pF,50V
	C553	QCFA1HZ-103	CAPACITOR	0.01μF,50V
	C554	QCYA1HK-103	CAPACITOR	0.01μF,50V
	C561	QCYA1EK-104	CAPACITOR	0.1μF,25V
	C563	QETC1HM-105	E CAPACITOR	1μF,50V
	C564	QETC1HM-105	E CAPACITOR	1μF,50V
	L501	PU59153-101K	COIL	100μH
	L502	PU59988-680J	COIL	68μH
	L503	PU59988-150J	COIL	15μH
	L504	PU59988-820J	COIL	82μH
	L505	PU59988-1R0JY	COIL	1μH
	L506	PU59988-100J	COIL	10μH
	L507	PU59988-330J	COIL	33μH
	L509	PU59153-101K	COIL	100μH
	L511	PU59153-101K	COIL	100μH
	L513	PU48530-101K	COIL	100μH
	L514	PU59988-390J	COIL	39μH
	L515	PU48530-222J	COIL	2.2mH
	L516	PU59988-221JW	COIL	220μH
	L517	PU48530-821J	COIL	820μH
	EQ501	PU60811	EQUALIZER	
	LPF501	PU58022	LOW PASS FILTER	
	BPF501	PELN0396	BAND PASS FILTER	
	BPF502	PU60654	BAND PASS FILTER	
		or PU60654-2	BAND PASS FILTER	
	CF501	PU57073	CERAMIC FILTER	
	DL501	PU58971-3	2H DELAY LINE	
△	X501	PU60653	CRYSTAL UNITS	
	CN501	PU58844-3R	CONNECTOR	
	CN502	PU58844-8	CONNECTOR	
	CN503	PU58844-8	CONNECTOR	
	CN504	PU58844-3	CONNECTOR	
	CN506	PU60417-4	CONNECTOR	

TERMINAL BOARD ASSY <06>

#△	REF No.	PART No.	PART NAME, DESCRIPTION
	PWBA	PRK10158A4	TERMINAL BOARD ASSY
	BKT1	PRD10377-2	TERMINAL BOARD
	JA1	PGZ01977	PIN JACK
	SCW1	SDSF3008Z	SCREW, × 3
	CN1	PU58844-103	CONNECTOR

AUDIO UNIT BOARD ASSY <09>

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	PWBA	PB10395S-02	AUDIO UNIT BOARD ASSY	
	IC1	PB20438B-01-SS	FMA MODULE BOARD ASSY	
	IC2	JCP0013	IC	
	IC4	M34225M2-110SP	IC	
	IC5	M5223P	IC	
	Q1	2SC4097(QR)	TRANSISTOR	
	Q4	2SC4081(QR)	TRANSISTOR	
	Q5	2SC4081(QR)	TRANSISTOR	
	Q6	DTA114EU	TRANSISTOR	
△	Q10	DTA144EU	TRANSISTOR	
△	Q11	DTA124EU	TRANSISTOR	
△	Q13	DTA114EU	TRANSISTOR	
	Q16	2SC4081(QR)	TRANSISTOR	
	Q18	DTA114TU	TRANSISTOR	
	Q19	DTC114EU	TRANSISTOR	
	Q23	2SC4081(QR)	TRANSISTOR	
	Q26	2SC4081(QR)	TRANSISTOR	
	Q27	2SC4081(QR)	TRANSISTOR	
	Q28	2SA1577(QR)	TRANSISTOR	
	Q29	2SC4097(QR)	TRANSISTOR	
	D1	DAN202U	DIODE	
	D3	DAN202U	DIODE	
	D4	DAN202U	DIODE	
	D5	DAN202U	DIODE	
	D6	DA204U	DIODE	
	D7	DA204U	DIODE	
	D8	DAN202U	DIODE	
	D10	DAN202U	DIODE	
	D12	HZ2BLL	ZENER DIODE	
	D13	HZ2BLL	ZENER DIODE	
	D14	1SS133	DIODE	
	D15	DAN202U	DIODE	
	D16	DAN202U	DIODE	
	D17	DAN202U	DIODE	
	D21	DAN202U	DIODE	
	D22	DAP202U	DIODE	
	D23	1SS133	DIODE	
		or MA165	DIODE	
	D24	1SS133	DIODE	
		or MA165	DIODE	
	R1	QRSA08J-100YN	RESISTOR	10Ω,1/10W
	R2	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
	R3	QRSA08J-820YN	RESISTOR	82Ω,1/10W
	R12	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W
	R15	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
	R16	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
	R17	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
	R22	QRSA08J-362YN	RESISTOR	3.6kΩ,1/10W
	R23	QRSA08J-104YN	RESISTOR	100kΩ,1/10W
	R24	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
	R25	QRSA08J-331YN	RESISTOR	330Ω,1/10W
	R29	QRSA08J-473YN	RESISTOR	47kΩ,1/10W
	R30	QRSA08J-473YN	RESISTOR	47kΩ,1/10W
	R31	QRSA08J-4R7YN	RESISTOR	4.7Ω,1/10W
	R33	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
	R34	QRSA08J-682YN	RESISTOR	6.8kΩ,1/10W
	R35	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
	R36	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
	R37	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
	R41	QRSA08J-123YN	RESISTOR	12kΩ,1/10W
	R42	QRSA08J-123YN	RESISTOR	12kΩ,1/10W
	R45	QRSA08J-473YN	RESISTOR	47kΩ,1/10W
	R46	QRSA08J-393YN	RESISTOR	39kΩ,1/10W
	R51	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W
	R52	QRSA08J-182YN	RESISTOR	1.8kΩ,1/10W
	R53	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
	R54	QRSA08J-331YN	RESISTOR	330Ω,1/10W
	R55	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10W
	R56	QRSA08J-101YN	RESISTOR	100Ω,1/10W
	R57	QRSA08J-221YN	RESISTOR	220Ω,1/10W
	R58	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W
	R62	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
	R63	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
	R64	QRSA08J-823YN	RESISTOR	82kΩ,1/10W
	R65	QRSA08J-121YN	RESISTOR	120Ω,1/10W
	R66	QRSA08J-682YN	RESISTOR	6.8kΩ,1/10W
	R67	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
	R68	QRSA08J-682YN	RESISTOR	6.8kΩ,1/10W
	R69	QRSA08J-121YN	RESISTOR	120Ω,1/10W
	R70	QRSA08J-823YN	RESISTOR	82kΩ,1/10W

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	R71	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
	R72	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W
	R73	QRSA08J-132YN	RESISTOR	1.3kΩ,1/10W
	R74	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
	R75	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
	R76	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W
	R77	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
	R78	QRSA08J-273YN	RESISTOR	27kΩ,1/10W
	R79	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
	R80	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
	R81	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
	R82	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
	R83	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
	R84	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
	R85	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
	R86	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
	R87	QRSA08J-473YN	RESISTOR	47kΩ,1/10W
	R88	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
	R91	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W
	R92	QRSA08J-221YN	RESISTOR	220Ω,1/10W
	R93	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W
	R94	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10W
	R95	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10W
	R103	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W
	R104	QRSA08J-333YN	RESISTOR	33kΩ,1/10W
	R106	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W
	R108	QRSA08J-473YN	RESISTOR	47kΩ,1/10W
	R110	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W
	R111	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W
	R112	QRD182J-472	RESISTOR	4.7kΩ,1/8W
	R114	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
	R115	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
	R116	QRD161J-273	RESISTOR	27kΩ,1/6W
	R117	QRD161J-560	RESISTOR	56Ω,1/6W
	C1	QCYA1HK-222	CAPACITOR	0.0022μF,50V
	C2	QCYA1HK-332	CAPACITOR	0.0033μF,50V
	C3	QETC1EM-107	E CAPACITOR	100μF,25V
	C4	QCSA1HJ-331	CAPACITOR	330pF,50V
	C5	QFV81HJ-333	TF CAPACITOR	0.033μF,50V
	C6	QETC1CM-106	E CAPACITOR	10μF,16V
	C9	QETC1HM-225	E CAPACITOR	2.2μF,50V
	C10	QETB1AM-336	E CAPACITOR	33μF,10V
	C11	QETC0JM-476	E CAPACITOR	47μF,6.3V
	C15	QETC1CM-106	E CAPACITOR	10μF,16V
	C21	QETC1CM-476	E CAPACITOR	47μF,16V
	C25	QETC1CM-476	E CAPACITOR	47μF,16V
	C26	QETC1CM-476	E CAPACITOR	47μF,16V
	C27	QETC1CM-106	E CAPACITOR	10μF,16V
	C28	QENC1CM-106	NP E CAPACITOR	10μF,16V
	C31	QETC1HM-225	E CAPACITOR	2.2μF,50V
	C32	QETC1EM-475	E CAPACITOR	4.7μF,25V
	C34	QFV71HJ-223	TF CAPACITOR	0.022μF,50V
	C35	QCYA1HK-682	CAPACITOR	0.0068μF,50V
	C36	QCYA1HK-153	CAPACITOR	0.015μF,50V
	C37	QCYA1HK-682	CAPACITOR	0.0068μF,50V
	C38	QETC1CM-106	E CAPACITOR	10μF,16V
	C39	QETC1AM-476	E CAPACITOR	47μF,10V
	C40	QENC1CM-106	NP E CAPACITOR	10μF,16V
	C41	QENC1CM-106	NP E CAPACITOR	10μF,16V
	C43	QETC1CM-106	E CAPACITOR	10μF,16V
	C44	QETC1AM-336	E CAPACITOR	33μF,10V
	C45	QETC0JM-107	E CAPACITOR	100μF,6.3V
	C46	QCSA1HJ-102	CAPACITOR	0.001μF,50V
	C47	QETC1AM-336	E CAPACITOR	33μF,10V
	C48	QETC0JM-107	E CAPACITOR	100μF,6.3V
	C51	QENC1CM-106	NP E CAPACITOR	10μF,16V
	C52	QETC1AM-476	E CAPACITOR	47μF,10V
	C53	QETC1CM-106	E CAPACITOR	10μF,16V
	C54	QETC1CM-476	E CAPACITOR	47μF,16V
	C55	QETC1CM-476	E CAPACITOR	47μF,16V
	C56	QETC0JM-107	E CAPACITOR	100μF,6.3V
	C57	QETC1CM-476	E CAPACITOR	47μF,16V
	C58	QETC1CM-476	E CAPACITOR	47μF,16V
	C60	QCYA1HK-102	CAPACITOR	0.001μF,50V
	C62	QETC0JM-107	E CAPACITOR	100μF,6.3V
	C63	QETC1CM-336	E CAPACITOR	33μF,16V
	C64	QETC1CM-336	E CAPACITOR	33μF,16V
	C65	QETC1CM-106	E CAPACITOR	10μF,16V
	C66	QETC1HM-105	E CAPACITOR	1μF,50V
	C67	QETC1CM-106	E CAPACITOR	10μF,16V
	C70	QCYA1HK-102	CAPACITOR	0.001μF,50V
	C71	QCFA1EZ-104	CAPACITOR	0.1μF,25V
	C72	QCFA1EZ-104	CAPACITOR	0.1μF,25V
	C75	QCYA1HK-153	CAPACITOR	0.015μF,50V
	C76	QCYA1EK-223	CAPACITOR	0.022μF,25V
	C79	QCC11CJ-104	CAPACITOR	0.1μF,16V
		or QCC11EJ-104	CAPACITOR	0.1μF,25V
	C81	QCYA1HK-221	CAPACITOR	220pF,50V
	C82	QCYA1HK-221	CAPACITOR	220pF,50V
	C83	QCSA1HJ-681	CAPACITOR	680pF,50V
	C86	QCYA1HK-103	CAPACITOR	0.01μF,50V
	C87	QCYA1HK-103	CAPACITOR	0.01μF,50V
	C88	QCBB1HJ-471	CAPACITOR	470pF,50V
	L1	PU58308-472J	COIL	4.7mH
	L2	PU48530-181J	COIL	180μH
	L3	PU48530-101J	COIL	100μH
	L5	PU48530-101J	COIL	100μH
	BPF1	PU60610	BAND PASS FILTER (1.4MHZ)	
	BPF2	PU60611	BAND PASS FILTER (1.8MHZ)	
⚠	CF1	PEVB0352	RESONATOR	
⚠	T1	PELN0351	OSC TRANSFORMER	
⚠		or PELN0562	OSC TRANSFORMER	
⚠	T2	PELN0340	OSC TRANSFORMER	
⚠		or PELN0532	OSC TRANSFORMER	

#△	REF No.	PART No.	PART NAME, DESCRIPTION
	SPC1	PQM30029-149	SPACER
	CN1	PU58844-8	CONNECTOR
	CN2	PU58844-2	CONNECTOR
	CN3	PU60417-6	CONNECTOR
	CN4	PU58844-5	CONNECTOR
	CN5	PU58844-4	CONNECTOR
	CN6	PU58844-2	CONNECTOR
		or PU58844-3	CONNECTOR
	CN7	PU60417-3	CONNECTOR
	CN8	PEMC0757-115	HOUSING
	CN9	PEMC0757-111	HOUSING
	CN10	PEMC0757-115	HOUSING
	CN11	PEMC0748-110	CONNECTOR
	CN12	PEMC0748-110	CONNECTOR
	CN13	PEMC0748-110	CONNECTOR
△	CP1	ICP-F10	CIRCUIT PROTECTOR
△	CP2	ICP-F10	CIRCUIT PROTECTOR
△	CP3	ICP-F10	CIRCUIT PROTECTOR

VIDEO INTERFACE BOARD ASSY <10>

#△	REF No.	PART No.	PART NAME, DESCRIPTION
	PWBA	PB10694F	VIDEO INTERFACE BOARD ASSY,368E
	K901	PGZ00354	FERRATE BEADS

TERMINAL SECTION

#△	REF No.	PART No.	PART NAME, DESCRIPTION
	TP	PU57545	TEST PIN, × 8
	IC1	JCP0021	IC
	IC2	BA7649A	IC
	IC3	BA7644AN	IC
	IC7	LVA523SA	IC
	IC12	MC74HC04AN	IC
		or CD74HC04E	IC
		or TC74HC04AP	IC
	Q1	2SA933S(RS)	TRANSISTOR
		or 2SA1267(YG)-TJK	TRANSISTOR
	Q4	DTC144WS	TRANSISTOR
	Q7	2SA933S(RS)	TRANSISTOR
		or 2SA1267(YG)-TJK	TRANSISTOR
	Q9	2SA854S(QR)	TRANSISTOR
	Q11	2SA854S(QR)	TRANSISTOR
	Q14	2SA854S(QR)	TRANSISTOR
	Q15	2SA933S(RS)	TRANSISTOR
		or 2SA1267(YG)-TJK	TRANSISTOR
	Q19	2SD1468S(RS)	TRANSISTOR
	Q21	2SA933S(RS)	TRANSISTOR
		or 2SA1267(YG)-TJK	TRANSISTOR
	Q22	2SA933S(RS)	TRANSISTOR
		or 2SA1267(YG)-TJK	TRANSISTOR
	Q23	2SC1740S(QRS)	TRANSISTOR
		or 2SC3199(YG)-TJK	TRANSISTOR
	Q25	DTC144WS	TRANSISTOR
	Q27	2SA933S(RS)	TRANSISTOR
		or 2SA1267(YG)-TJK	TRANSISTOR
	Q29	DTC144WS	TRANSISTOR
	Q30	DTC144WS	TRANSISTOR
	Q31	2SA933S(RS)	TRANSISTOR
		or 2SA1267(YG)-TJK	TRANSISTOR
	Q32	2SC1740S(QRS)	TRANSISTOR
		or 2SC3199(YG)-TJK	TRANSISTOR
	Q33	2SC1740S(S)	TRANSISTOR
	Q34	2SA933S(RS)	TRANSISTOR
		or 2SA1267(YG)-TJK	TRANSISTOR
	Q35	2SC1740S(QRS)	TRANSISTOR
		or 2SC3199(YG)-TJK	TRANSISTOR
	Q36	2SA933S(RS)	TRANSISTOR
		or 2SA1267(YG)-TJK	TRANSISTOR
	Q38	2SC1740S(QRS)	TRANSISTOR
		or 2SC3199(YG)-TJK	TRANSISTOR
	Q39	2SC1740S(QRS)	TRANSISTOR
		or 2SC3199(YG)-TJK	TRANSISTOR
	Q46	DTC144ES	TRANSISTOR
	Q48	DTC144ES	TRANSISTOR
	Q49	DTC144WS	TRANSISTOR
	Q52	2SA933S(RS)	TRANSISTOR
		or 2SA1267(YG)-TJK	TRANSISTOR
	Q59	DTC144WS	TRANSISTOR
	Q60	DTC144ES	TRANSISTOR
	Q62	2SC1740S(QRS)	TRANSISTOR
		or 2SC3199(YG)-TJK	TRANSISTOR
	Q63	2SC1740S(QRS)	TRANSISTOR
		or 2SC3199(YG)-TJK	TRANSISTOR
	D2	1SS133	DIODE
		or MA165	DIODE
	D4	1SS133	DIODE
		or MA165	DIODE
	D5	1SS133	DIODE
		or MA165	DIODE
	D6	1SS133	DIODE
		or MA165	DIODE
	D7	1SS133	DIODE
		or MA165	DIODE
	D8	1SS133	DIODE
		or MA165	DIODE
	D9	1SS133	DIODE

#△	REF No.	PART No.	PART NAME, DESCRIPTION
		or MA165	DIODE
	D10	1SS133	DIODE
		or MA165	DIODE
	D11	1SS133	DIODE, 368E
		or MA165	DIODE, 368E
	D16	1SS133	DIODE
		or MA165	DIODE
	D17	1SS133	DIODE
		or MA165	DIODE
	D24	MTZ8.2BT-77	ZENER DIODE
	D25	1SS133	DIODE
		or MA165	DIODE
	D26	1SS133	DIODE
		or MA165	DIODE
	D27	1SS133	DIODE
		or MA165	DIODE
	D28	1SS133	DIODE
		or MA165	DIODE
	D29	1SS133	DIODE
		or MA165	DIODE
	D30	1SS133	DIODE
		or MA165	DIODE
	D31	1SS133	DIODE
		or MA165	DIODE
	D32	1SS133	DIODE
		or MA165	DIODE
	D33	1SS133	DIODE
		or MA165	DIODE
	D34	1SS133	DIODE
		or MA165	DIODE
	D35	1SS133	DIODE
		or MA165	DIODE
	D38	1SS133	DIODE
		or MA165	DIODE
	D39	1SS133	DIODE
		or MA165	DIODE
	D41	1SS133	DIODE
		or MA165	DIODE
	D46	1SS133	DIODE
		or MA165	DIODE
	D47	1SS133	DIODE
		or MA165	DIODE
	D50	1SS133	DIODE
		or MA165	DIODE
	D51	1SS133	DIODE
		or MA165	DIODE
	D52	1SS133	DIODE
		or MA165	DIODE
	D53	1SS133	DIODE
		or MA165	DIODE
	D55	1SS133	DIODE
		or MA165	DIODE
	D58	1SS133	DIODE
		or MA165	DIODE
	D59	1SS133	DIODE
		or MA165	DIODE
	D60	1SS133	DIODE
		or MA165	DIODE

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	D61	1SS133	DIODE	
		or MA165	DIODE	
	D62	1SS133	DIODE	
		or MA165	DIODE	
	D64	1SS133	DIODE	
		or MA165	DIODE	
	D65	1SS133	DIODE	
		or MA165	DIODE	
	D66	1SS133	DIODE	
		or MA165	DIODE	
	D67	1SS133	DIODE	
		or MA165	DIODE	
	D68	1SS133	DIODE	
		or MA165	DIODE	
	R1	QRD162J-101	RESISTOR	100Ω,1/6W
	R2	QRD161J-222	RESISTOR	2.2kΩ,1/6W
	R3	QRD161J-103	RESISTOR	10kΩ,1/6W
	R4	QRD161J-103	RESISTOR	10kΩ,1/6W
	R6	QRD161J-103	RESISTOR	10kΩ,1/6W
	R7	QRD161J-750	RESISTOR	75Ω,1/6W
	R8	QRD161J-750	RESISTOR	75Ω,1/6W
	R9	QRD161J-750	RESISTOR	75Ω,1/6W
	R10	QRD161J-103	RESISTOR	10kΩ,1/6W
	R11	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R12	QRD161J-103	RESISTOR	10kΩ,1/6W
	R15	QRD161J-222	RESISTOR	2.2kΩ,1/6W
	R17	QRD122J-391S	RESISTOR	390Ω,1/2W
	R19	QRD122J-391S	RESISTOR	390Ω,1/2W
	R24	QRD161J-750	RESISTOR	75Ω,1/6W
	R25	QRD161J-750	RESISTOR	75Ω,1/6W
	R26	QRD161J-750	RESISTOR	75Ω,1/6W
	R27	QRD161J-750	RESISTOR	75Ω,1/6W
	R28	QRD161J-750	RESISTOR	75Ω,1/6W
	R29	QRD161J-750	RESISTOR	75Ω,1/6W
	R31	QRD161J-123	RESISTOR, 368E	12kΩ,1/6W
	R32	QRD161J-101	RESISTOR	100Ω,1/6W
	R34	QRD122J-391S	RESISTOR	390Ω,1/2W
	R35	QRD161J-103	RESISTOR	10kΩ,1/6W
	R36	QVPA606-103Z	V RESISTOR,EE LEVEL	10kΩ
	R37	QRD161J-223	RESISTOR	22kΩ,1/6W
	R44	QRD161J-222	RESISTOR	2.2kΩ,1/6W
	R45	QRD161J-470	RESISTOR	47Ω,1/6W
△	R46	QRD161J-271	RESISTOR	270Ω,1/6W
	R49	QRD161J-222	RESISTOR	2.2kΩ,1/6W
	R50	QRD161J-222	RESISTOR	2.2kΩ,1/6W
	R51	QRD161J-182	RESISTOR	1.8kΩ,1/6W
	R52	QRD161J-102	RESISTOR	1kΩ,1/6W
	R53	QRD161J-102	RESISTOR	1kΩ,1/6W
	R54	QRD161J-152	RESISTOR	1.5kΩ,1/6W
	R55	QRD161J-102	RESISTOR	1kΩ,1/6W
	R56	QRD161J-152	RESISTOR	1.5kΩ,1/6W
	R57	QRD161J-473	RESISTOR	47kΩ,1/6W
	R58	QRD161J-102	RESISTOR	1kΩ,1/6W
	R59	QRD161J-223	RESISTOR	22kΩ,1/6W
	R60	QRD161J-223	RESISTOR	22kΩ,1/6W

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
R61	QRD161J-223	RESISTOR	22kΩ,1/6W
R62	QRD161J-223	RESISTOR	22kΩ,1/6W
R63	QVPA606-333Z	V RESISTOR,S PB Y LEVEL	33kΩ
R64	QVPA606-332Z	V RESISTOR,PB Y LEVEL	3.3kΩ
R65	QRD161J-682	RESISTOR	6.8kΩ,1/6W
R66	QRD161J-333	RESISTOR	33kΩ,1/6W
R67	QRD161J-221	RESISTOR	220Ω,1/6W
R68	QRD161J-221	RESISTOR	220Ω,1/6W
R69	QRD161J-103	RESISTOR	10kΩ,1/6W
R70	QRD161J-223	RESISTOR	22kΩ,1/6W
R71	QRD161J-183	RESISTOR	18kΩ,1/6W
R72	QRD161J-101	RESISTOR	100Ω,1/6W
R73	QRD161J-183	RESISTOR	18kΩ,1/6W
R74	QRD161J-223	RESISTOR	22kΩ,1/6W
R77	QRD161J-223	RESISTOR	22kΩ,1/6W
R78	QRD161J-101	RESISTOR	100Ω,1/6W
R79	QRD161J-272	RESISTOR	2.7kΩ,1/6W
R80	QRD161J-202	RESISTOR	2kΩ,1/6W
R81	QRD161J-103	RESISTOR	10kΩ,1/6W
R82	QRD161J-105	RESISTOR	1MΩ,1/6W
R83	QRD161J-183	RESISTOR	18kΩ,1/6W
R84	QRD161J-392	RESISTOR	3.9kΩ,1/6W
R85	QRD161J-101	RESISTOR	100Ω,1/6W
R86	QRD161J-182	RESISTOR	1.8kΩ,1/6W
R87	QRD161J-431	RESISTOR	430Ω,1/6W
R88	QRD161J-751	RESISTOR	750Ω,1/6W
R89	QRD161J-271	RESISTOR	270Ω,1/6W
R90	QRD161J-102	RESISTOR	1kΩ,1/6W
R91	QRD161J-821	RESISTOR	820Ω,1/6W
R92	QRD161J-623	RESISTOR	62kΩ,1/6W
R93	QRD161J-682	RESISTOR	6.8kΩ,1/6W
R94	QRD161J-123	RESISTOR	12kΩ,1/6W
R95	QRD161J-333	RESISTOR	33kΩ,1/6W
R96	QRD161J-563	RESISTOR	56kΩ,1/6W
R97	QRD161J-152	RESISTOR	1.5kΩ,1/6W
R98	QRD161J-162	RESISTOR	1.6kΩ,1/6W
R99	QRD161J-102	RESISTOR	1kΩ,1/6W
R101	QRD161J-103	RESISTOR	10kΩ,1/6W
R107	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R108	QRD161J-103	RESISTOR	10kΩ,1/6W
R109	QRD161J-223	RESISTOR	22kΩ,1/6W
R112	QRD161J-223	RESISTOR	22kΩ,1/6W
R113	QRD161J-104	RESISTOR	100kΩ,1/6W
R114	QRD161J-223	RESISTOR	22kΩ,1/6W
R122	QRD161J-102	RESISTOR	1kΩ,1/6W
R125	QRD161J-122	RESISTOR	1.2kΩ,1/6W
R127	QRD161J-563	RESISTOR	56kΩ,1/6W
R131	QRD161J-183	RESISTOR	18kΩ,1/6W
R132	QRD161J-101	RESISTOR	100Ω,1/6W
R133	QRD161J-303	RESISTOR	30kΩ,1/6W
R134	QRD161J-101	RESISTOR	100Ω,1/6W
R138	QRD161J-562	RESISTOR	5.6kΩ,1/6W
R142	QRD161J-101	RESISTOR	100Ω,1/6W
R143	QRD161J-331	RESISTOR	330Ω,1/6W
R144	QRD161J-564	RESISTOR	560kΩ,1/6W

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
R145	QRD161J-223	RESISTOR	22kΩ,1/6W
R146	QRD161J-223	RESISTOR	22kΩ,1/6W
R150	QRD161J-0R0	RESISTOR, 368E	0Ω,1/6W
C1	QETC0JM-476	E CAPACITOR	47μF,6.3V
C2	QETC1HM-105	E CAPACITOR	1μF,50V
C3	QCVB1CN-103	CAPACITOR	0.01μF,16V
C4	QETC1HM-105	E CAPACITOR	1μF,50V
C8	QCSB1HJ-470	CAPACITOR	47pF,50V
C9	QCVB1CN-103	CAPACITOR	0.01μF,16V
C11	QCVB1CN-103	CAPACITOR	0.01μF,16V
C14	QCVB1CN-103	CAPACITOR	0.01μF,16V
C15	QETC0JM-476	E CAPACITOR	47μF,6.3V
C18	QETC1CM-476	E CAPACITOR	47μF,16V
C19	QCVB1CN-103	CAPACITOR	0.01μF,16V
C21	QCVB1CN-103	CAPACITOR	0.01μF,16V
C22	QCVB1CN-103	CAPACITOR	0.01μF,16V
C23	QETC1CM-476	E CAPACITOR	47μF,16V
C24	QCVB1CN-103	CAPACITOR	0.01μF,16V
C27	QCVB1CN-103	CAPACITOR	0.01μF,16V
C28	QCVB1CN-103	CAPACITOR	0.01μF,16V
C29	QETC0JM-477	E CAPACITOR	470μF,6.3V
C30	QETC0JM-477	E CAPACITOR	470μF,6.3V
C32	QCVB1CN-103	CAPACITOR	0.01μF,16V
C33	QETC1EM-106	E CAPACITOR	10μF,25V
C35	QCVB1CN-103	CAPACITOR	0.01μF,16V
C36	QETC1CM-476	E CAPACITOR	47μF,16V
C37	QCVB1CN-103	CAPACITOR	0.01μF,16V
C38	QETC1CM-476	E CAPACITOR	47μF,16V
C39	QCVB1CN-103	CAPACITOR	0.01μF,16V
C40	QETC1HM-105	E CAPACITOR	1μF,50V
C47	QCVB1CN-103	CAPACITOR	0.01μF,16V
C48	QCVB1CN-103	CAPACITOR	0.01μF,16V
C49	QETC0JM-107	E CAPACITOR	100μF,6.3V
C50	QCVB1CN-103	CAPACITOR	0.01μF,16V
C51	QETC1EM-335	E CAPACITOR	3.3μF,25V
C52	QETC1HM-474	E CAPACITOR	0.47μF,50V
C53	QETC1HM-224	E CAPACITOR	0.22μF,50V
C54	QFN31HJ-682	M CAPACITOR	0.0068μF,50V
C55	QETC0JM-107	E CAPACITOR	100μF,6.3V
C56	QCVB1CN-103	CAPACITOR	0.01μF,16V
C57	QETC1HM-474	E CAPACITOR	0.47μF,50V
C58	QETC1HM-474	E CAPACITOR	0.47μF,50V
C59	QETC1HM-474	E CAPACITOR	0.47μF,50V
C60	QCXB1CM-682	CAPACITOR	0.0068μF,16V
C61	QETC1HM-474	E CAPACITOR	0.47μF,50V
C62	QETC1HM-474	E CAPACITOR	0.47μF,50V
C63	QETC1HM-105	E CAPACITOR	1μF,50V
C64	QCVB1CN-103	CAPACITOR	0.01μF,16V
C65	QCVB1CN-103	CAPACITOR	0.01μF,16V
C66	QCVB1CN-103	CAPACITOR	0.01μF,16V
C68	QETC1HM-105	E CAPACITOR	1μF,50V
C69	QETC1HM-105	E CAPACITOR	1μF,50V
C70	QCVB1CN-103	CAPACITOR	0.01μF,16V
C71	QETC1CM-106	E CAPACITOR	10μF,16V

10

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
C72	QETC1HM-225	E CAPACITOR	2.2μF,50V
C73	QCVB1CN-103	CAPACITOR	0.01μF,16V
C74	QETC0JM-476	E CAPACITOR	47μF,6.3V
C76	QCVB1CN-103	CAPACITOR	0.01μF,16V
C77	QETC1CM-107	E CAPACITOR	100μF,16V
C78	QETC1CM-476	E CAPACITOR	47μF,16V
C79	QETC1CM-106	E CAPACITOR	10μF,16V
C80	QCVB1CN-103	CAPACITOR	0.01μF,16V
C81	QETC1EM-335	E CAPACITOR	3.3μF,25V
C82	QCSB1HJ-330	CAPACITOR	33pF,50V
C83	QCSB1HJ-470	CAPACITOR	47pF,50V
C88	QETC0JM-476	E CAPACITOR	47μF,6.3V
C89	QCVB1CN-103	CAPACITOR	0.01μF,16V
C94	QCFB1EZ-223	CAPACITOR	0.022μF,25V
C98	QCFB1EZ-223	CAPACITOR	0.022μF,25V
C105	QCVB1CN-103	CAPACITOR	0.01μF,16V
L1	PU48530-101K	COIL	100μH
L2	PU48530-101K	COIL	100μH
L3	PU48530-101K	COIL	100μH
L4	PU48530-101K	COIL	100μH
L5	PU48530-101K	COIL	100μH
L7	PU48530-101K	COIL	100μH
L8	PU59988-100J	COIL	10μH
L10	PU48530-101K	COIL	100μH
L11	PU59153-101K	COIL	100μH
L12	PU48530-101K	COIL	100μH
L13	PU48530-101K	COIL	100μH
LC1	PU60813	LCF	
CN1	PU60417-5	CONNECTOR	
CN4	PU58844-2	CONNECTOR	
CN5	PEMC0749-110	CONNECTOR	
CN6	PEMC0749-110	CONNECTOR	
CN7	PEMC0749-110	CONNECTOR	
CN55	PU43351-3	CONNECTOR, 368E	

Y/C SEPARATOR SECTION

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
TP	PU57545	TEST PIN, ×6	
IC201	VC2063S	IC	
Q201	2SA933S(RS)	TRANSISTOR	
	or 2SA1267(YG)-TJK	TRANSISTOR	
Q202	2SC1740S(QRS)	TRANSISTOR	
	or 2SC3199(YG)-TJK	TRANSISTOR	
Q203	2SA933S(RS)	TRANSISTOR	
	or 2SA1267(YG)-TJK	TRANSISTOR	
Q204	2SC1740S(QRS)	TRANSISTOR	

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
	or 2SC3199(YG)-TJK	TRANSISTOR	
Q205	2SC1740S(QRS)	TRANSISTOR	
	or 2SC3199(YG)-TJK	TRANSISTOR	
Q206	2SC1740S(QRS)	TRANSISTOR	
	or 2SC3199(YG)-TJK	TRANSISTOR	
Q207	2SC1740S(QRS)	TRANSISTOR	
	or 2SC3199(YG)-TJK	TRANSISTOR	
Q208	2SA933S(RS)	TRANSISTOR	
	or 2SA1267(YG)-TJK	TRANSISTOR	
Q209	2SC1740S(QRS)	TRANSISTOR	
	or 2SC3199(YG)-TJK	TRANSISTOR	
Q210	DTC144ES	TRANSISTOR	
Q211	DTA144ES	TRANSISTOR	
R201	QRD161J-101	RESISTOR	100Ω,1/6W
R202	QRD161J-472	RESISTOR	4.7kΩ,1/6W
R203	QRD161J-391	RESISTOR	390Ω,1/6W
R204	QRD161J-101	RESISTOR	100Ω,1/6W
R205	QRD161J-331	RESISTOR	330Ω,1/6W
R206	QVPA606-151Z	V RESISTOR,Y COMB GAIN	150Ω
R207	QRD161J-102	RESISTOR	1kΩ,1/6W
R208	QRD161J-471	RESISTOR	470Ω,1/6W
R209	QRD161J-681	RESISTOR	680Ω,1/6W
R210	QRD161J-242	RESISTOR	2.4kΩ,1/6W
R211	QRD161J-391	RESISTOR	390Ω,1/6W
R212	QRD161J-272	RESISTOR	2.7kΩ,1/6W
R213	ERT-D2FGL102S	THERMISTOR	
R214	QRD161J-223	RESISTOR	22kΩ,1/6W
R215	QVPA606-223Z	V RESISTOR,Y COMB-1	22kΩ
R216	QRD161J-272	RESISTOR	2.7kΩ,1/6W
R217	QRD161J-122	RESISTOR	1.2kΩ,1/6W
R218	ERT-D2FHL332S	THERMISTOR	
R219	QVPA606-472Z	V RESISTOR,Y COMB-2	4.7kΩ
R220	QRD161J-102	RESISTOR	1kΩ,1/6W
R221	QRD161J-102	RESISTOR	1kΩ,1/6W
R222	QRD161J-122	RESISTOR	1.2kΩ,1/6W
R223	QRD161J-821	RESISTOR	820Ω,1/6W
R224	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R225	QRD161J-102	RESISTOR	1kΩ,1/6W
R226	QRD161J-181	RESISTOR	180Ω,1/6W
R227	QRD161J-821	RESISTOR	820Ω,1/6W
R228	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R229	QRD161J-821	RESISTOR	820Ω,1/6W
R230	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R231	QVPA606-471Z	V RESISTOR,Y COMB-3	470Ω
R232	QRD161J-222	RESISTOR	2.2kΩ,1/6W
R233	QRD161J-561	RESISTOR	560Ω,1/6W
R234	QVPA606-473Z	V RESISTOR,2H DL C	47kΩ
R235	QRD161J-561	RESISTOR	560Ω,1/6W
R236	QRD161J-391	RESISTOR	390Ω,1/6W
R237	QRD161J-391	RESISTOR	390Ω,1/6W
R239	QRD161J-223	RESISTOR	22kΩ,1/6W
R243	QRD161J-392	RESISTOR	3.9kΩ,1/6W
R244	QRD161J-102	RESISTOR	1kΩ,1/6W
R245	QRD161J-563	RESISTOR	56kΩ,1/6W
R246	QRD161J-393	RESISTOR	39kΩ,1/6W
R247	QRD161J-123	RESISTOR	12kΩ,1/6W

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
C201	QCSB1HJ-470	CAPACITOR	47pF,50V
C202	QETC0JM-227	E CAPACITOR	220μF,6.3V
C203	QCVB1CN-103	CAPACITOR	0.01μF,16V
C204	QETC1CM-476	E CAPACITOR	47μF,16V
C205	QCVB1CN-103	CAPACITOR	0.01μF,16V
C206	QCVB1CN-103	CAPACITOR	0.01μF,16V
C207	QCBB1HJ-101	CAPACITOR	100pF,50V
C208	QCVB1CN-103	CAPACITOR	0.01μF,16V
C209	QCVB1CN-103	CAPACITOR	0.01μF,16V
C210	QCVB1CN-103	CAPACITOR	0.01μF,16V
C211	QCVB1CN-103	CAPACITOR	0.01μF,16V
C212	QCVB1CN-103	CAPACITOR	0.01μF,16V
C213	QCVB1CN-103	CAPACITOR	0.01μF,16V
C214	QETC0JM-227	E CAPACITOR	220μF,6.3V
C215	QCVB1CN-103	CAPACITOR	0.01μF,16V
C216	QCT25CH-470	CAPACITOR	47pF
C217	QCVB1CN-103	CAPACITOR	0.01μF,16V
C218	QETC1HM-105	E CAPACITOR	1μF,50V
C219	QCBB1HJ-102	CAPACITOR	0.001μF,50V
C223	QCBB1HJ-101	CAPACITOR	100pF,50V
C224	QCVB1CN-103	CAPACITOR	0.01μF,16V
C225	QCVB1CN-103	CAPACITOR	0.01μF,16V
C226	QCVB1CN-103	CAPACITOR	0.01μF,16V
C227	QCVB1CN-103	CAPACITOR	0.01μF,16V
C228	QCVB1CN-103	CAPACITOR	0.01μF,16V
C229	QCVB1CN-103	CAPACITOR	0.01μF,16V
C230	QCSB1HJ-270	CAPACITOR	27pF,50V
L201	PU48530-101K	COIL	100μH
L202	PU48530-101K	COIL	100μH
L203	PELN0522	COIL	
L204	PU60165-8R2G	COIL	8.2μH
EQ201	PU60809	EQUALIZER	
EQ202	PU60810	EQUALIZER	
BPF201	PU60921	BAND PASS FILTER	
BPF202	PU60808-2	BAND PASS FILTER	
DL201	PELN0565	DELAY LINE	

TERMINAL SECTION

R601	QRD161J-182	RESISTOR, 368E	1.8kΩ,1/6W
R602	QRD161J-182	RESISTOR, 368E	1.8kΩ,1/6W
JA1	PU61048	CONNECTOR, × 2(JA1,2)	

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
SCW1	SDSF3010Z	SCREW	
CN602	PU58844-6	CONNECTOR	
CN604	PU58844-2	CONNECTOR	

ON SCREEN SECTION

TP	PU57545	TEST PIN, × 2	
IC901	M50554-263SP	IC	
IC902	M52684AP	IC	
Q901	DTA114ES	TRANSISTOR	
Q902	DTA114ES	TRANSISTOR	
Q911	DTC124ES	TRANSISTOR	
Q912	DTC124ES	TRANSISTOR	
Q913	DTC144WS	TRANSISTOR	
Q914	DTC124ES	TRANSISTOR	
Q915	2SA933S(RS)	TRANSISTOR	
	or 2SA1267(YG)-TJK	TRANSISTOR	
D901	1SS133	DIODE	
	or MA165	DIODE	
D902	1SS133	DIODE	
	or MA165	DIODE	
D906	1SS133	DIODE	
	or MA165	DIODE	
D907	1SS133	DIODE	
	or MA165	DIODE	
D908	1SS133	DIODE	
	or MA165	DIODE	
R901	QRD161J-472	RESISTOR	4.7kΩ,1/6W
R902	QRD161J-103	RESISTOR	10kΩ,1/6W
R903	QRD161J-681	RESISTOR	680Ω,1/6W
R904	QRD161J-103	RESISTOR	10kΩ,1/6W
R905	QRD161J-102	RESISTOR	1kΩ,1/6W
R906	QRD161J-471	RESISTOR	470Ω,1/6W
R907	QRD161J-472	RESISTOR	4.7kΩ,1/6W
R908	QRD161J-362	RESISTOR	3.6kΩ,1/6W
R909	QRD161J-512	RESISTOR	5.1kΩ,1/6W
R910	QRD161J-202	RESISTOR	2kΩ,1/6W
R911	QRD161J-622	RESISTOR	6.2kΩ,1/6W
R912	QRD161J-123	RESISTOR	12kΩ,1/6W
R913	QRD161J-123	RESISTOR	12kΩ,1/6W
R914	QRD161J-103	RESISTOR	10kΩ,1/6W
R915	QRD161J-102	RESISTOR	1kΩ,1/6W
R916	QRD161J-105	RESISTOR	1MΩ,1/6W
R917	QRD161J-102	RESISTOR	1kΩ,1/6W
R918	QRD161J-471	RESISTOR	470Ω,1/6W
R920	QRD161J-152	RESISTOR	1.5kΩ,1/6W

10

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	R921	QRD161J-271	RESISTOR	270Ω,1/6W
	R922	QRD161J-103	RESISTOR	10kΩ,1/6W
	R923	QRD161J-473	RESISTOR	47kΩ,1/6W
	R924	QRD161J-153	RESISTOR	15kΩ,1/6W
	R951	QRD161J-103	RESISTOR	10kΩ,1/6W
	R952	QRD161J-103	RESISTOR	10kΩ,1/6W
	R953	QRD161J-103	RESISTOR	10kΩ,1/6W
	R954	QRD161J-103	RESISTOR	10kΩ,1/6W
	R955	QRD161J-562	RESISTOR	5.6kΩ,1/6W
	R956	QRD161J-103	RESISTOR	10kΩ,1/6W
	C903	QETC0JM-227	E CAPACITOR	220μF,6.3V
	C904	QCVB1CN-103	CAPACITOR	0.01μF,16V
	C905	QAT3120-450	TRIMMER CAPACITOR,DOT CLOCK	
	C906	QCSB1HJ-220	CAPACITOR	22pF,50V
	C907	QCSB1HJ-330	CAPACITOR	33pF,50V
	C908	QCSB1HJ-360	CAPACITOR	36pF,50V
	C909	QCVB1CN-103	CAPACITOR	0.01μF,16V
	C910	QCSB1HJ-270	CAPACITOR	27pF,50V
	C911	QCVB1CN-103	CAPACITOR	0.01μF,16V
	C912	QCSB1HJ-270	CAPACITOR	27pF,50V
	C915	QCT25CH-150	CAPACITOR	15pF
	C916	QAT3120-200	TRIMMER,COLOR BURST	
	C917	QCT25CH-5R0	CAPACITOR	5pF
	C918	QCVB1CN-103	CAPACITOR	0.01μF,16V
	C919	QETC0JM-227	E CAPACITOR	220μF,6.3V
	C921	QCBB1HJ-331	CAPACITOR	330pF,50V
	C922	QFN31HJ-222	M CAPACITOR	0.0022μF,50V
	C923	QETC1HM-105	E CAPACITOR	1μF,50V
	C924	QCVB1CN-103	CAPACITOR	0.01μF,16V
	C925	QCSB1HJ-220	CAPACITOR	22pF,50V
	C928	QCXB1CM-152	CAPACITOR	0.0015μF,16V
	C932	QETC1HM-335	E CAPACITOR	3.3μF,50V
	C941	QCBB1HJ-101	CAPACITOR	100pF,50V
	L901	PU48530-101K	COIL	100μH
	L902	PU59988-220JY	COIL	22μH
	L903	PU59988-8R2JY	COIL	8.2μH
	L904	PU59988-150J	COIL	15μH
	L905	PU59988-220JY	COIL	22μH
	L906	PU59988-220JY	COIL	22μH
	L907	PU48530-101K	COIL	100μH
△	CF901	PU60086	RESONATOR	
△	X901	PU60908	CRYSTAL RESONATOR	
	CN901	PU60417-6	CONNECTOR	

OTHERS SECTION

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	TP	PU57545	TEST PIN, × 2	
	R301	QVPA606-332Z	V RESISTOR,EE BALANCE	3.3kΩ
	R302	QVPA606-473Z	V RESISTOR,EE LEVEL	47kΩ
	R303	QRD161J-221	RESISTOR	220Ω,1/6W
	R304	QVPA606-683Z	V RESISTOR,BIAS	68kΩ
	R305	QRD161J-100	RESISTOR	10Ω,1/6W
	CL1	PU59311-3	WIRE CLAMP	
	CL2	PU59311-4	WIRE CLAMP	
	HD1	PU60521	BOARD HOLDER(A), × 2	
	HD2	PU60522	BOARD HOLDER(B), × 2	
	SLD1	PQ42995-1-1	SHIELD CASE	
	SPC1	PU60010-2	SPACER	

VIDEO SUB SECTION

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	Q502	DTC144WS	TRANSISTOR	
	Q512	DTC144WS	TRANSISTOR	
	D501	1SS133	DIODE	
		or MA165	DIODE	
	D502	1SS133	DIODE	
		or MA165	DIODE	
	D503	1SS133	DIODE	
		or MA165	DIODE	
	D505	1SS133	DIODE	
		or MA165	DIODE	
	R501	QRD161J-103	RESISTOR	10kΩ,1/6W
	R502	QRD161J-562	RESISTOR	5.6kΩ,1/6W
	R507	QRD161J-222	RESISTOR	2.2kΩ,1/6W
	R524	QRD161J-393	RESISTOR	39kΩ,1/6W
	C501	QETC1EM-106	E CAPACITOR	10μF,25V
	C511	QCVB1CN-103	CAPACITOR	0.01μF,16V
	C517	QCVB1CN-103	CAPACITOR	0.01μF,16V
	C521	QETC1CM-106	E CAPACITOR	10μF,16V

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	C522	QETC1HM-105	E CAPACITOR	1μF,50V
	C523	QETC1CM-106	E CAPACITOR	10μF,16V
	C526	QCVB1CN-103	CAPACITOR	0.01μF,16V
	L503	PU48530-101K	COIL	100μH
	L504	PU48530-101K	COIL	100μH
	CN502	PU58844-2R	CONNECTOR	

AUDIO／CTL HEAD BOARD ASSY <12>

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	PWB1	PB40046-01-02	A／C HEAD BOARD	
	CN1	PU58844-104	CONNECTOR	
	CN2	PU58844-103	CONNECTOR	

SYSCON BOARD ASSY <20>

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	PWBA	PRK10158A1	SYSCON BOARD ASSY	
	IC1	UPD75P216ACW302	IC	
	IC2	UPD75P008CU-102	IC	
	IC3	M6M80011AP	IC	
	IC4	IC-PST523H-2	IC	
	Q1	2SC1740S(RS)	TRANSISTOR	
	D1	1SS133	DIODE	
	D2	RD9.1ES-T1B2	ZENER DIODE	
	D3	1SS133	DIODE	
	D4	1SS133	DIODE	
	D5	1SS133	DIODE	
	D6	1SS133	DIODE	
	D7	1SS133	DIODE	
	D8	11ES2	DIODE	
	D9	11ES2	DIODE	
	D10	1SS133	DIODE	
	D11	1SS133	DIODE	
	D12	1SS133	DIODE	
	R1	QRD161J-104	RESISTOR	100kΩ,1／6W
	R2	QRD161J-101	RESISTOR	100Ω,1／6W
	R3	QRD161J-101	RESISTOR	100Ω,1／6W
	R4	QRD161J-101	RESISTOR	100Ω,1／6W
	R5	QRD161J-333	RESISTOR	33kΩ,1／6W
	R6	QRD161J-682	RESISTOR	6.8kΩ,1／6W
	R7	QRD161J-103	RESISTOR	10kΩ,1／6W
	R8	QRD161J-102	RESISTOR	1kΩ,1／6W
	R9	QRD161J-271	RESISTOR	270Ω,1／6W
	R10	QRD161J-102	RESISTOR	1kΩ,1／6W
	R11	QRD161J-561	RESISTOR	560Ω,1／6W
	R12	QRD161J-103	RESISTOR	10kΩ,1／6W
	R14	QRD161J-104	RESISTOR	100kΩ,1／6W
	R15	QRD161J-104	RESISTOR	100kΩ,1／6W
	R16	QRD161J-104	RESISTOR	100kΩ,1／6W
	R17	QRD161J-271	RESISTOR	270Ω,1／6W
	R18	QRD161J-271	RESISTOR	270Ω,1／6W
	R19	QRD161J-271	RESISTOR	270Ω,1／6W
	R20	QRD161J-103	RESISTOR	10kΩ,1／6W
	R21	QRD161J-101	RESISTOR	100Ω,1／6W
	R22	QRD161J-473	RESISTOR	47kΩ,1／6W
	R23	QRD161J-473	RESISTOR	47kΩ,1／6W
	R24	QRD161J-473	RESISTOR	47kΩ,1／6W
	R25	QRD161J-473	RESISTOR	47kΩ,1／6W
	R26	QRD161J-472	RESISTOR	4.7kΩ,1／6W
	R27	QRD161J-472	RESISTOR	4.7kΩ,1／6W
	R28	QRD161J-472	RESISTOR	4.7kΩ,1／6W
	R29	QRD161J-472	RESISTOR	4.7kΩ,1／6W
	R30	QRD161J-103	RESISTOR	10kΩ,1／6W
	R31	QRD161J-103	RESISTOR	10kΩ,1／6W
	R32	QRD161J-103	RESISTOR	10kΩ,1／6W
	R33	QRD161J-103	RESISTOR	10kΩ,1／6W
	R34	QRD161J-333	RESISTOR	33kΩ,1／6W
	R35	QRD161J-333	RESISTOR	33kΩ,1／6W
	R36	QRD161J-333	RESISTOR	33kΩ,1／6W
	R37	QRD161J-333	RESISTOR	33kΩ,1／6W
	R38	QRD161J-472	RESISTOR	4.7kΩ,1／6W
	R39	QRD161J-472	RESISTOR	4.7kΩ,1／6W
	R40	QRD161J-104	RESISTOR	100kΩ,1／6W
	R41	QRD161J-104	RESISTOR	100kΩ,1／6W
	R42	QRD161J-104	RESISTOR	100kΩ,1／6W
	R43	QRD161J-104	RESISTOR	100kΩ,1／6W
	R44	QRD161J-104	RESISTOR	100kΩ,1／6W
	R45	QRD161J-104	RESISTOR	100kΩ,1／6W
	R46	QRD161J-104	RESISTOR	100kΩ,1／6W
	R47	QRD161J-104	RESISTOR	100kΩ,1／6W
	R48	QRD161J-104	RESISTOR	100kΩ,1／6W
	R49	QRD161J-104	RESISTOR	100kΩ,1／6W
	R50	QRD161J-102	RESISTOR	1kΩ,1／6W
	R51	QRD161J-333	RESISTOR	33kΩ,1／6W
	R52	QRD161J-102	RESISTOR	1kΩ,1／6W
	R53	QRD161J-333	RESISTOR	33kΩ,1／6W
	R54	QRD161J-103	RESISTOR	10kΩ,1／6W
	R55	QRD161J-103	RESISTOR	10kΩ,1／6W
	R56	QRD161J-271	RESISTOR	270Ω,1／6W
	R57	QRD161J-271	RESISTOR	270Ω,1／6W
	R58	QRD161J-472	RESISTOR	4.7kΩ,1／6W
	R59	QRD161J-472	RESISTOR	4.7kΩ,1／6W
	R60	QRD161J-472	RESISTOR	4.7kΩ,1／6W
	R62	QRD161J-333	RESISTOR	33kΩ,1／6W
	R63	QRD161J-103	RESISTOR	10kΩ,1／6W
	R64	QRD161J-103	RESISTOR	10kΩ,1／6W

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	R65	QRD161J-103	RESISTOR	10kΩ ,1／6W
	R66	QRD161J-472	RESISTOR	4.7kΩ ,1／6W
	R67	QRD161J-224	RESISTOR	220kΩ ,1／6W
	R68	QRD161J-472	RESISTOR	4.7kΩ ,1／6W
	R69	QRD161J-472	RESISTOR	4.7kΩ ,1／6W
	R70	QRD161J-472	RESISTOR	4.7kΩ ,1／6W
	C1	QCBB1HJ-151	CAPACITOR	150pF,50V
	C2	QCBB1HJ-151	CAPACITOR	150pF,50V
	C3	QCVB1CN-103	CAPACITOR	0.01 μ F,16V
	C4	QCVB1CN-103	CAPACITOR	0.01 μ F,16V
	C5	QCBB1HJ-101	CAPACITOR	100pF,50V
	C6	QCBB1HJ-101	CAPACITOR	100pF,50V
	C7	QER61CM-106	E CAPACITOR	10 μ F,16V
	C8	QER61CM-106	E CAPACITOR	10 μ F,16V
	C9	QCVB1CN-103	CAPACITOR	0.01 μ F,16V
	C10	QCVB1CN-103	CAPACITOR	0.01 μ F,16V
	C11	QER61CM-106	E CAPACITOR	10 μ F,16V
	C12	QCVB1CN-103	CAPACITOR	0.01 μ F,16V
	C13	QCVB1CN-103	CAPACITOR	0.01 μ F,16V
⚠	CF1	PU60784	RESONATOR	
⚠	CF2	PU60784	RESONATOR	
⚠	K1	PU60281-5	FERRATE BEADS	
⚠	K2	PU60281-5	FERRATE BEADS	
	SKT1	PGZ01957-042	IC SOCKET	
		or PGZ01957-064	IC SOCKET	
	CN1	PU60417-108	CONNECTOR	
	CN2	PU58844-103	CONNECTOR	
	CN3	PU60417-106	CONNECTOR	
	CN4	PU60417-103	CONNECTOR	
	CN5	PU59555-107	CONNECTOR	
	CN6	PU59555-109	CONNECTOR	
	CN7	PU59555-107	CONNECTOR	
	CN8	PU59555-106	CONNECTOR	
	CN9	PU59555-6	CONNECTOR	
⚠	CP1	ICP-F10	CIRCUIT PROTECTOR	

FDP BOARD ASSY <28>

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	PWBA	PRK10158A2	FDP BOARD ASSY	
	FDP	PEDP0079	DISPLAY PANEL	
	IC1	MSC7112-01SS	IC	
	Q2	2SC1740S(RS)	TRANSISTOR	
	Q3	DTC124ES	TRANSISTOR	
	D1	1SS133	DIODE	
	D2	1SS133	DIODE	
	D3	1SS133	DIODE	
	D4	1SS133	DIODE	
	D5	1SS133	DIODE	
	D6	1SS133	DIODE	
	D7	1SS133	DIODE	
	D8	1SS133	DIODE	
	D10	GL-3PR8	LE DIODE	
	D11	RD3.6ES-T1B1	ZENER DIODE	
	D12	1SS133	DIODE	
	D14	1SS133	DIODE	
	D15	1SS133	DIODE	
	R1	QRD161J-102	RESISTOR	1kΩ ,1／6W
	R2	QRD161J-102	RESISTOR	1kΩ ,1／6W
	R3	QRD161J-102	RESISTOR	1kΩ ,1／6W
	R4	QRD161J-273	RESISTOR	27kΩ ,1／6W
	R6	QRD161J-181	RESISTOR	180Ω ,1／6W
	R7	QRD161J-333	RESISTOR	33kΩ ,1／6W
	C1	QCSB1HJ-330	CAPACITOR	33pF,50V
	C2	QCSB1HJ-330	CAPACITOR	33pF,50V
	C3	QCVB1CN-103	CAPACITOR	0.01 μ F,16V
	C4	QER61CM-106	E CAPACITOR	10 μ F,16V
	C5	QCBB1HJ-101	CAPACITOR	100pF,50V
	C6	QETC1HM-104	E CAPACITOR	0.1 μ F,50V
	C7	QCVB1CN-103	CAPACITOR	0.01 μ F,16V
	C8	QER61VM-106	E CAPACITOR	10 μ F,35V
	L1	PU59152-221J	COIL	220 μ H
	SW1	PESW0525-02Z	TACT SWITCH	
	SW2	PESW0525-02Z	TACT SWITCH	
	SW3	PESW0525-02Z	TACT SWITCH	
	SW4	PESW0525-02Z	TACT SWITCH	
	SW5	PESW0525-02Z	TACT SWITCH	
	SW6	PESW0525-02Z	TACT SWITCH	
	SW7	PESW0525-02Z	TACT SWITCH	
	SW8	PESW0525-02Z	TACT SWITCH	
	HD1	PQM30038-4	LED HOLDER	
	HD9	PRD30991	FDP HOLDER(L)	
	HD10	PRD30992	FDP HOLDER(R)	
	CN1	PU59555-106	CONNECTOR	
	CN2	PU59555-6	CONNECTOR	
	CN3	PU59555-103	CONNECTOR	
	CN8	PU60417-105	CONNECTOR	

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION

JACK BOARD ASSY <36>

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	PWBA	PB30167Z	JACK BOARD ASSY
	BKT1	PQ21038-19	TERMINAL BOARD
	JA1	PGZ00440	BNC CONNECTOR
	JA2	PGZ00440	BNC CONNECTOR
	SCW1	SDSF2608Z	SCREW, × 2
	CN1	PU58844-107	CONNECTOR

JACK/REMOTE BOARD ASSY <37>

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	PWBA	PRK10158A3	JACK/REMOTE BOARD ASSY
	Q1	DTA144ES	TRANSISTOR
	Q2	DTC144ES	TRANSISTOR
	D1	1SS133	DIODE
	D2	1SS133	DIODE
	D3	1SS133	DIODE
	D4	1SS133	DIODE
	D5	1SS133	DIODE
	D6	1SS133	DIODE
	D7	1SS133	DIODE
	D8	1SS133	DIODE
	D9	1SS133	DIODE
	D10	1SS133	DIODE
	D11	GL-3PR8	LE DIODE
	R1	PERE0483-02	V RESISTOR, PHONES LEVEL 1kΩ
	R2	QRD161J-102	RESISTOR 1kΩ,1/6W
	R3	QRD161J-222	RESISTOR 2.2kΩ,1/6W
	R4	QRD161J-222	RESISTOR 2.2kΩ,1/6W
	R5	QRD161J-473	RESISTOR 47kΩ,1/6W
	R6	QRD161J-181	RESISTOR 180Ω,1/6W
	R7	PERE0514	V RESISTOR, MIC LEVEL 7kΩ
	R8	PERE0513	V RESISTOR, HI-FI REC BAL100kΩ
	R9	PERE0512	V RESISTOR, HI-FI REC LEV 20kΩ
	C1	QCVB1CN-103	CAPACITOR 0.01μF,16V

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	LC1	PU59885-223	N FILTER
	LC2	PU59885-223	N FILTER
	SW1	PESW0525-02Z	TACT SWITCH
	SW2	PESW0525-02Z	TACT SWITCH
	SW3	PESW0525-02Z	TACT SWITCH
	SW4	PESW0525-02Z	TACT SWITCH
	SW5	PESW0525-02Z	TACT SWITCH
	SW6	PESW0525-02Z	TACT SWITCH
	SW7	PESW0525-02Z	TACT SWITCH
	SW8	PESW0525-02Z	TACT SWITCH
	SW10	PU58486-1-1	SLIDE SWITCH
	SW11	PU58486-1-1	SLIDE SWITCH
⚠	K1	PU60281-5	FERRATE BEADS
	HD1	PQM30038-4	LED HOLDER
	JA1	PU60664	MINI JACK
	JA2	PU60664-3	MINI JACK
	JA3	PU60664-7	MINI JACK
	JA4	PGZ01516	FEMALE CONNECTOR
	VA1	PU49624-2	VARISTOR
	VA2	PU49624-2	VARISTOR
	CN1	PU58844-3	CONNECTOR
	CN2	PU60417-6	CONNECTOR
	CN3	PU58844-5	CONNECTOR
	CN4	PU59555-9	CONNECTOR
	CN5	PU59555-7	CONNECTOR
	CN6	PU59555-3	CONNECTOR
	CN7	PU58844-2R	CONNECTOR
	CN14	PU58844-2	CONNECTOR

PRE AMP BOARD ASSY <42>

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	PWBA	PB20473A-02	PRE AMP BOARD ASSY
	IC1	TA8609F	IC
	Q1	2SC2778	TRANSISTOR
	Q2	2SC2778	TRANSISTOR
	Q3	2SC2778	TRANSISTOR
	Q4	2SC2778	TRANSISTOR
	Q5	2SC2778	TRANSISTOR
	Q6	2SC2778	TRANSISTOR

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
Q7	2SC2778	TRANSISTOR	
Q8	2SC2778	TRANSISTOR	
Q9	2SC2412K	TRANSISTOR	
Q10	2SC2412K	TRANSISTOR	
Q11	DTA124EK	TRANSISTOR	
Q12	DTA124EK	TRANSISTOR	
Q13	DTC144EK	TRANSISTOR	
Q14	DTC144EK	TRANSISTOR	
D1	DAP202K	DIODE	
R2	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10W
R4	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10W
R6	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10W
R8	QRSA08J-272YN	RESISTOR	2.7kΩ,1/10W
R10	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W
R12	QRSA08J-471YN	RESISTOR	470Ω,1/10W
R13	QRSA08J-391YN	RESISTOR	390Ω,1/10W
R14	NVP1301-152N	V RESISTOR,LP CH-2 RESON	1.5kΩ
R15	NVP1301-152N	V RESISTOR,LP CH-1 RESON	1.5kΩ
R16	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
R17	NVP1301-152N	V RESISTOR,SP CH-2 RESON	1.5kΩ
R18	QRSA08J-391YN	RESISTOR	390Ω,1/10W
R19	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10W
R20	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10W
R21	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10W
R22	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10W
R23	QRSA08J-561YN	RESISTOR	560Ω,1/10W
R24	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R25	QRSA08J-332YN	RESISTOR	3.3kΩ,1/10W
R26	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
R27	QRSA08J-332YN	RESISTOR	3.3kΩ,1/10W
C2	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C4	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C6	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C8	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C10	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C11	or PECA0779-200X	TRIMMER CAPACITOR,LP CH-2 F0	
C12	or PECA0779-300X	TRIMMER CAPACITOR,LP CH-1 F0	
C13	or PECA0779-200X	TRIMMER CAPACITOR,SP CH-2 F0	
C14	or PECA0779-200X	TRIMMER CAPACITOR,SP CH-1 F0	
C16	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C18	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C20	QER41HM-105	E CAPACITOR	1μF,50V
C22	QER41HM-105	E CAPACITOR	1μF,50V
C24	QER40JM-476	E CAPACITOR	47μF,6.3V
C30	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C32	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C34	QCFA1HZ-103	CAPACITOR	0.01μF,50V
L1	PU59988-100JY	COIL	10μH
L2	PU59988-120JY	COIL	12μH

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
L3	PU59988-100JY	COIL	10μH
L4	PU59988-120JY	COIL	12μH
L5	PU48530-101K	COIL	100μH
SLD2	PQ33468-1-4	SHIELD COVER(1)	
TP1	PU56008	TEST-PIN	
CN2	PU58844-3	CONNECTOR	

REC AMP BOARD ASSY <43>

PWBA	PB10404G	REC AMP BOARD ASSY
CL1	PU59311-3	WIRE CLAMP
CL2	PU56729-2	WIRE CLAMP
SLD1	PQ21044-1-1	SHIELD FRAME
SLD2	PQ21045-1-2	SHIELD CASE
SLD3	PQ33421-1-1	SHIELD PLATE
SPC1	PQM30029-182	SPACER

VIDEO REC SECTION

TP	PU60142-2	CONNECTOR
IC1	TA8733F	IC
IC2	JCP0023	IC
Q2	2SC4081(QRS)	TRANSISTOR
Q4	DTA124EU	TRANSISTOR
Q5	DTA124EU	TRANSISTOR
Q6	DTC144EU	TRANSISTOR
Q7	2SC4081(QRS)	TRANSISTOR
Q8	2SA1576(QR)	TRANSISTOR
Q9	2SC4081(QRS)	TRANSISTOR
Q10	2SC4081(QRS)	TRANSISTOR
Q13	2SA1576(QR)	TRANSISTOR
Q14	2SC4081(QRS)	TRANSISTOR
Q15	2SA1576(QR)	TRANSISTOR
Q16	DTC144EU	TRANSISTOR
Q17	2SC4081(QRS)	TRANSISTOR
Q18	2SC4081(QRS)	TRANSISTOR

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
Q19	2SA1577(QR)	TRANSISTOR	
Q20	DTC124EU	TRANSISTOR	
Q21	2SA1577(QR)	TRANSISTOR	
Q23	2SC4081(QRS)	TRANSISTOR	
Q24	2SC4081(QRS)	TRANSISTOR	
Q25	DTC114EU	TRANSISTOR	
Q29	2SA1267(YG)JK	TRANSISTOR	
	or 2SA933S(RS)	TRANSISTOR	
Q30	DTA124EU	TRANSISTOR	
Q31	DTC144WU	TRANSISTOR	
D1	DAN202U	DIODE	
D2	DAN202U	DIODE	
D3	DAN202U	DIODE	
D4	DAN202U	DIODE	
D5	DAN202U	DIODE	
D6	DAN202U	DIODE	
R1	QRSA08J-122YN	RESISTOR	1.2kΩ ,1/10W
R2	QRSA08J-221YN	RESISTOR	220Ω ,1/10W
R3	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R4	QRSA08J-122YN	RESISTOR	1.2kΩ ,1/10W
R5	QRSA08J-221YN	RESISTOR	220Ω ,1/10W
R6	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R7	QRSA08J-823YN	RESISTOR	82kΩ ,1/10W
R9	QRSA08J-121YN	RESISTOR	120Ω ,1/10W
R10	QRSA08J-101YN	RESISTOR	100Ω ,1/10W
R11	QRSA08J-471YN	RESISTOR	470Ω ,1/10W
R12	QRSA08J-275YN	RESISTOR	2.7MΩ ,1/10W
R17	NRVA62D-154N	RESISTOR	150kΩ ,1/16W
R18	QRSA08F-1103YN	RESISTOR	11Ω ,1/10W
R19	QRSA08F-1433YN	RESISTOR	14kΩ ,1/10W
R20	QRSA08F-1783YN	RESISTOR	1700MΩ ,1/10W
R21	NRVA62D-154N	RESISTOR	150kΩ ,1/16W
R22	NRVA62D-124N	RESISTOR	120kΩ ,1/16W
R24	NRVA02D-7872AY	RESISTOR	780MΩ ,1/10W
R25	QRSA08J-623YN	RESISTOR	62kΩ ,1/10W
R26	QRSA08J-101YN	RESISTOR	100Ω ,1/10W
R27	QRSA08J-471YN	RESISTOR	470Ω ,1/10W
R29	QRSA08J-223YN	RESISTOR	22kΩ ,1/10W
R30	QRSA08J-153YN	RESISTOR	15kΩ ,1/10W
R31	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R32	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R33	QRSA08J-391YN	RESISTOR	390Ω ,1/10W
R34	QRSA08J-103YN	RESISTOR	10kΩ ,1/10W
R35	QVPA603-222	V RESISTOR,S-SP VIDEO EQ 2.2kΩ	
R36	QVPA603-152	V RESISTOR,S-LP VIDEO EQ 1.5kΩ	
R39	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R40	QRSA08J-821YN	RESISTOR	820Ω ,1/10W
R41	QRSA08J-332YN	RESISTOR	3.3kΩ ,1/10W
R42	QRSA08J-561YN	RESISTOR	560Ω ,1/10W
R43	QRSA08J-362YN	RESISTOR	3.6kΩ ,1/10W
R44	QRSA08J-391YN	RESISTOR	390Ω ,1/10W
R45	QRSA08J-182YN	RESISTOR	1.8kΩ ,1/10W
R46	QRSA08J-223YN	RESISTOR	22kΩ ,1/10W

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
R47	QRSA08J-151YN	RESISTOR	150Ω ,1/10W
R48	QRSA08J-182YN	RESISTOR	1.8kΩ ,1/10W
R49	QRSA08J-183YN	RESISTOR	18kΩ ,1/10W
R50	QRSA08J-331YN	RESISTOR	330Ω ,1/10W
R51	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R52	QRSA08J-391YN	RESISTOR	390Ω ,1/10W
R53	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R57	QRSA08J-561YN	RESISTOR	560Ω ,1/10W
R58	QRSA08J-182YN	RESISTOR	1.8kΩ ,1/10W
R59	QRSA08J-681YN	RESISTOR	680Ω ,1/10W
R60	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R61	QRSA08J-122YN	RESISTOR	1.2kΩ ,1/10W
R62	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W
R63	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R64	QRSA08J-101YN	RESISTOR	100Ω ,1/10W
R65	QVPA603-682	V RESISTOR,N-SP VIDEO EQ 6.8kΩ	
R66	QVPA603-332	V RESISTOR,N-LP VIDEO EQ 3.3kΩ	
R69	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R70	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W
R71	QRSA08J-273YN	RESISTOR	27kΩ ,1/10W
R72	QRSA08J-393YN	RESISTOR	39kΩ ,1/10W
R73	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W
R74	QRSA08J-103YN	RESISTOR	10kΩ ,1/10W
R75	QRSA08J-103YN	RESISTOR	10kΩ ,1/10W
R76	QRSA08J-393YN	RESISTOR	39kΩ ,1/10W
R77	QRSA08J-222YN	RESISTOR	2.2kΩ ,1/10W
R80	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R81	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R82	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R83	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R84	QRSA08J-390YN	RESISTOR	39Ω ,1/10W
R85	QRSA08J-103YN	RESISTOR	10kΩ ,1/10W
R86	QRSA08J-182YN	RESISTOR	1.8kΩ ,1/10W
R87	QRSA08J-391YN	RESISTOR	390Ω ,1/10W
R90	QVPA603-332	V RESISTOR,LP REC COL 3.3kΩ	
R91	QVPA603-332	V RESISTOR,SP REC COL 3.3kΩ	
R92	QRSA08J-563YN	RESISTOR	56kΩ ,1/10W
R93	QRSA08J-153YN	RESISTOR	15kΩ ,1/10W
R94	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R95	QRSA08J-393YN	RESISTOR	39kΩ ,1/10W
R96	QRSA08J-183YN	RESISTOR	18kΩ ,1/10W
R97	QRSA08J-332YN	RESISTOR	3.3kΩ ,1/10W
R98	QRSA08J-102YN	RESISTOR	1kΩ ,1/10W
R107	QRD161J-102	RESISTOR	1kΩ ,1/6W
R109	QRSA08J-682YN	RESISTOR	6.8kΩ ,1/10W
C1	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C2	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C3	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C4	QCSA1HJ-121	CAPACITOR	120pF,50V
C5	QCSA1HJ-331	CAPACITOR	330pF,50V
C6	QCSA1HJ-121	CAPACITOR	120pF,50V
C7	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C8	QCSA1HJ-560	CAPACITOR	56pF,50V
C9	QCSA1HJ-271	CAPACITOR	270pF,50V
C10	QCSA1HJ-151	CAPACITOR	150pF,50V

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
C11	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C12	QER40JM-476	E CAPACITOR	47μF,6.3V
C13	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C14	QER41HM-104	E CAPACITOR	0.1μF,50V
C15	QFN41HJ-223	M CAPACITOR	0.022μF,50V
C16	QFN31HJ-223	M CAPACITOR	0.022μF,50V
C17	QCFA1EZ-104	CAPACITOR	0.1μF,25V
C18	QCSA1HJ-820	CAPACITOR	82pF,50V
C19	QCFA1EZ-104	CAPACITOR	0.1μF,25V
C20	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C21	QCFA1EZ-104	CAPACITOR	0.1μF,25V
C22	QFN41HJ-223	M CAPACITOR	0.022μF,50V
C23	QFN41HJ-223	M CAPACITOR	0.022μF,50V
C24	QCFA1EZ-104	CAPACITOR	0.1μF,25V
C26	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C27	QEK41CM-107	E CAPACITOR	100μF,16V
C28	QETA0JM-476	E CAPACITOR	47μF,6.3V
C29	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C30	QCSA1HJ-680	CAPACITOR	68pF,50V
C31	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C32	QCSA1HJ-180	CAPACITOR	18pF,50V
C33	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C34	QCSA1HJ-390	CAPACITOR	39pF,50V
C38	QCSA1HJ-120	CAPACITOR	12pF,50V
C39	QCSA1HJ-120	CAPACITOR	12pF,50V
C40	QCSA1HJ-390	CAPACITOR	39pF,50V
C42	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C43	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C44	QCSA1HJ-560	CAPACITOR	56pF,50V
C45	QCSA1HJ-560	CAPACITOR	56pF,50V
C48	QCSA1HJ-150	CAPACITOR	15pF,50V
C49	QCSA1HJ-120	CAPACITOR	12pF,50V
C50	QCSA1HJ-6R0	CAPACITOR	6pF,50V
C51	QCSA1HJ-510	CAPACITOR	51pF,50V
C52	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C54	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C55	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C57	QCSA1HJ-102	CAPACITOR	0.001μF,50V
C58	QCFA1EZ-104	CAPACITOR	0.1μF,25V
C61	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C62	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C63	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C64	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C65	QCFA1HZ-103	CAPACITOR	0.01μF,50V
C66	QCSA1HJ-130	CAPACITOR	13pF,50V
C67	QCFA1EZ-104	CAPACITOR	0.1μF,25V
C69	QEP41HM-105	NP E CAPACITOR	1μF,50V
C75	QCBB1HJ-101	CAPACITOR	100pF,50V
L1	PU59988-181J	COIL	180μH
L2	PU59988-330J	COIL	33μH
L3	PU59988-820J	COIL	82μH
L4	PU59988-101J	COIL	100μH
L5	PU59988-330J	COIL	33μH
L6	PU48530-101K	COIL	100μH
L7	PU59988-5R6J	COIL	5.6μH
L8	PU48530-101K	COIL	100μH
L9	PU59988-560J	COIL	56μH
L10	PU59988-150J	COIL	15μH
L11	PU59988-390J	COIL	39μH
L12	PU59988-221J	COIL	220μH
L13	PU59988-100J	COIL	10μH
L14	PU59988-220JY	COIL	22μH
L15	PU59988-270J	COIL	27μH
L16	PU59988-820J	COIL	82μH
L17	PU59988-180J	COIL	18μH
L18	PU59988-180J	COIL	18μH
L19	PU48530-101K	COIL	100μH
L20	PU59988-680J	COIL	68μH
L22	PU59988-181J	COIL	180μH
L23	PU59988-181J	COIL	180μH
CN1	PU56258-18	CONNECTOR	
CN2	PU58844-3R	CONNECTOR	
CN3	PU58844-3	CONNECTOR	
CN4	PU60417-4	CONNECTOR	
CN5	PU58844-8Y	CONNECTOR	
CN6	PU60417-3	CONNECTOR	

FMA PRE／REC SECTION

#⚠REF No.	PART No.	PART NAME, DESCRIPTION	
IC201	AN3380NK	IC	
Q201	DTC124TU	TRANSISTOR	
Q202	DTC124TU	TRANSISTOR	
Q203	DTC114EU	TRANSISTOR	
Q204	2SC4081(QRS)	TRANSISTOR	
Q205	DTA114EU	TRANSISTOR	
Q206	DTC114EU	TRANSISTOR	
D203	1SS133	DIODE	
D204	1SS133	DIODE	
R201	NRVA62D-273N	RESISTOR	27kΩ,1／16W
R202	QRSA08J-101YN	RESISTOR	100Ω,1／10W
R203	QRSA08J-101YN	RESISTOR	100Ω,1／10W
R204	QRSA08J-274YN	RESISTOR	270kΩ,1／10W
R205	QRSA08J-102YN	RESISTOR	1kΩ,1／10W
R206	QRSA08J-332YN	RESISTOR	3.3kΩ,1／10W
R207	QRSA08J-101YN	RESISTOR	100Ω,1／10W
R208	QRSA08J-332YN	RESISTOR	3.3kΩ,1／10W
R210	QRSA08J-103YN	RESISTOR	10kΩ,1／10W
R211	QRSA08J-152YN	RESISTOR	1.5kΩ,1／10W
R212	QRSA08J-222YN	RESISTOR	2.2kΩ,1／10W
R213	QRSA08J-102YN	RESISTOR	1kΩ,1／10W
R214	QRSA08J-560YN	RESISTOR	56Ω,1／10W
R215	QRSA08J-560YN	RESISTOR	56Ω,1／10W

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	R216	QVZ3521-331Z	V RESISTOR,A REC FM LEV330Ω	
	R217	QRSA08J-153YN	RESISTOR	15kΩ,1/10W
	C201	QCFA1EZ-104	CAPACITOR	0.1μF,25V
	C202	QCSA1HJ-391	CAPACITOR	390pF,50V
	C203	QCSA1HJ-561	CAPACITOR	560pF,50V
	C204	QCSA1HJ-102	CAPACITOR	0.001μF,50V
	C205	QCSA1HJ-561	CAPACITOR	560pF,50V
	C206	QCSA1HJ-102	CAPACITOR	0.001μF,50V
	C207	QCFA1CZ-224	CAPACITOR	0.22μF,16V
	C208	QCSA1HJ-391	CAPACITOR	390pF,50V
	C209	QEK60JM-107	E CAPACITOR	100μF,6.3V
	C210	QCYA1HJ-103	CAPACITOR	0.01μF,50V
	C211	QCYA1HJ-103	CAPACITOR	0.01μF,50V
	C214	QCSA1HJ-330	CAPACITOR	33pF,50V
	C215	QCSA1HJ-102	CAPACITOR	0.001μF,50V
	C216	QCYA1HJ-103	CAPACITOR	0.01μF,50V
	C217	QCSA1HJ-102	CAPACITOR	0.001μF,50V
	C218	QCSA1HJ-102	CAPACITOR	0.001μF,50V
	C219	QCYA1HJ-103	CAPACITOR	0.01μF,50V
	C220	QEK61EM-476	E CAPACITOR	47μF,25V
	C221	QCYA1HJ-103	CAPACITOR	0.01μF,50V
	C224	QCFA1CZ-224	CAPACITOR	0.22μF,16V
	L201	PU48530-101K	COIL	100μH
	BPF201	PELN0374	BAND PASS FILTER	
	TP53	PU60142-2	TEST PIN, × 2(TP53,TP54)	
	CN201	PU58844-8	CONNECTOR	

FLYING ERASE BOARD ASSY <46>

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	PWBA	PB30104B	FLYING ERASE BOARD ASSY	
	Q1	2SA933S	TRANSISTOR	
	Q2	2SC1741S(QR)	TRANSISTOR	
	Q3	2SA933S(Q)	TRANSISTOR	
	Q4	2SD639R	TRANSISTOR	
	Q5	2SD639R	TRANSISTOR	
	D1	UZ8.2BSC	ZENER DIODE	
	D2	1SS133	DIODE	
		or MA165	DIODE	
	R1	QRD161J-473	RESISTOR	47kΩ,1/6W
	R2	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	R3	QRD161J-222	RESISTOR	2.2kΩ,1/6W
	R4	QRD161J-473	RESISTOR	47kΩ,1/6W
	R5	QRD161J-223	RESISTOR	22kΩ,1/6W
	R6	QRD161J-104	RESISTOR	100kΩ,1/6W
	R7	QRD161J-121	RESISTOR	120Ω,1/6W
	R8	QRD161J-104	RESISTOR	100kΩ,1/6W
	R9	QRD161J-121	RESISTOR	120Ω,1/6W
	R10	QRD161J-101	RESISTOR	100Ω,1/6W
	C1	QCVB1CN-103	CAPACITOR	0.01μF,16V
	C2	QCC11EJ-123	CAPACITOR	0.012μF,25V
	C3	QCSB1HJ-560	CAPACITOR	56pF,50V
	C4	QCBB1HJ-820	CAPACITOR	82pF,50V
	C6	QCBB1HJ-820	CAPACITOR	82pF,50V
	C8	QCT25UJ-181	CAPACITOR	180pF
	C9	QCT25UJ-330	CAPACITOR	33pF
	L1	PU48530-560J	COIL	56μH
	L2	PU48530-3R3K	COIL	3.3μH
	L3	PU48530-3R3K	COIL	3.3μH
	L4	PU59152-101J	COIL	100μH
△	T1	PU56175	SWITCH TRANS	
	SLD1	PU61041	SHIELD CASE	
	SLD2	PU61042	SHIELD COVER	
	SLD3	PU61043	SHIELD PLATE	
	CN1	PU58844-3	CONNECTOR	
	CN2	PU58844-104	CONNECTOR	

DECK TERMINAL BOARD ASSY <51>

#△	REF No.	PART No.	PART NAME, DESCRIPTION	
	PWBA	PB10481A-01	DECK TERMINAL BOARD ASSY	
	Q1	PU60625	END SENSOR	
	R3	QRD161J-331	RESISTOR	330Ω,1/6W
	R4	QRD161J-331	RESISTOR	330Ω,1/6W
	R5	QRD161J-331	RESISTOR	330Ω,1/6W
	R8	NTH5D473KB	THERMISTOR	
		or ERT-D2ZHK473S	NEGA THERMISTOR	
		or NTH5D473KA	RESISTOR	
	C1	QCVB1CM-103	CAPACITOR	0.01μF,16V
	PS1	PS5705HR	PH INTERRUPTER	
	PS2	PS5705HR	PH INTERRUPTER	

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
⚠	TH601	PESC1041	POSITIVE THERMISTOR	
	CN1	PEMC0722-018	WIRE TRAP	
		or PEMC0753-018	WIRE TRAP	
	CN2	PU60642	7PIN CONNECTOR	
	CN3	PU60640	4PIN CONNECTOR	

LOADING MDA BOARD ASSY <55>

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	PWBA2	PB30150A	LOADING MDA BOARD ASSY	
⚠	IC1	BA6418N	IC	
⚠		or XRA6418N	IC	
	C1	QETA1CM-227	E CAPACITOR	220μF,16V
	C3	QETA1HM-105	E CAPACITOR	1μF,50V
	CN1	PU59555-104	CONNECTOR	
	CN2	PU58844-2	CONNECTOR	

CASSETTE HOUSING BOARD ASSY <56>

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	PWB1	PB40061	CASSETTE HOUSING BOARD	
	Q2	PN268VI	PHOTO TRANSISTOR	
	D1	UZ5.1BSB	ZENER DIODE	
		or RD5.1ESB2	ZENER DIODE	
	R1	QRD162J-473	RESISTOR	47kΩ,1/6W
	R2	QRD182J-681	RESISTOR	680Ω,1/8W
	R3	QRD122J-102S	RESISTOR	1kΩ,1/2W
	C1	QCC11EJ-103	CAPACITOR	0.01μF,25V
	PHS3	PU60629	CASSETTE SENSOR	
	TH1	ERT-D2FHJ503S	THERMISTOR	
		or PESC1084	NEGATIVE THERMISTOR	
	CN2	PU60639	4PIN SOCKET	
		or PEMC0971	CONNECTOR	

PRIMALY BOARD ASSY <60>

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	PWBA	PB20555F	PRIMARY BOARD ASSY
⚠	HD1	PU57505	FUSE CLIP, ×2
	J4	PU60894-102	TERMINAL
	J5	PU60894-102	TERMINAL
	J6	PU60894-102	TERMINAL
⚠	F1	QMF51E2-1R25	FUSE
⚠		or QMF51E2-1R25J1	FUSE

UPPER DRUM BOARD ASSY <62><63>

#⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	PWB1	PDM3161	BOARD (UPPER DRUM), ×2

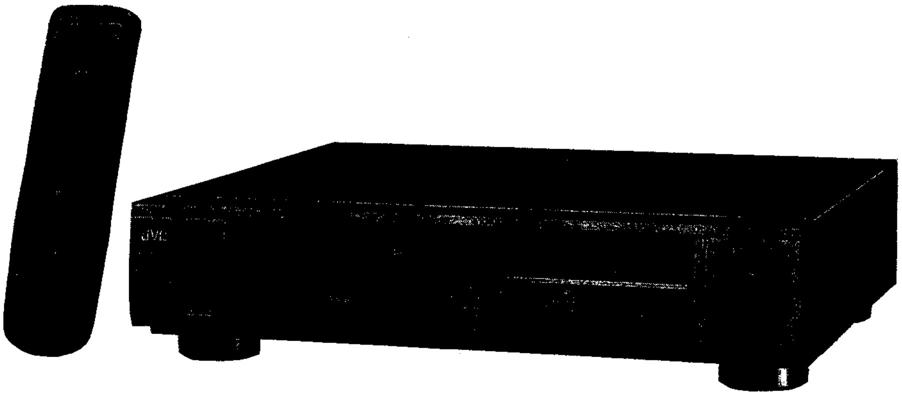
V17314

JVC

SERVICE MANUAL

VIDEO CASSETTE RECORDER

SR-S360E



Hi-Fi

S VHS
625

SPECIFICATIONS

GENERAL

Power requirement	AC 220 – 240 V, 50/60 Hz
Power consumption	21 W
Temperature	
Operating	5°C to 40°C
Storage	–20°C to 60°C
Humidity	
Operating	35% to 80%
Storage	5% to 80%
Operating position	Horizontal only
Dimensions (WxHxD)	435 x 105 x 395 mm
Weight	6.7 kg
Format	VHS/S-VHS PAL standard
Tape width	12.65 mm
Tape speed	
(SP)	23.39 mm/sec
(LP)	11.70 mm/sec
Maximum recording time	
(SP)	240 min. with E-240 video cassette
(LP)	480 min. with E-240 video cassette

VIDEO

Signal system	PAL-type colour signal/PAL-type Y/C signal
Recording system	Rotary two-head helical scan system
Luminance	FM recording
Colour	Down-converted direct recording
Input	
Line	0.5 to 2.0 Vp-p, 75 ohms, unbalanced
Output	
Line	1.0 Vp-p, 75 ohms, unbalanced
Signal-to-noise ratio	43 dB (Rohde & Schwartz noise meter)
Horizontal resolution	400 lines (S-VHS) 240 lines (VHS)

AUDIO

Recording system	2 Hi-Fi tracks/Monaural longitudinal track
Input	
Line	–8 dBs, more than 50 k-ohms, unbalanced
MIC	–67 dBs, high impedance, unbalanced
Output	
Line	–6 dBs, less than 1 k-ohm, unbalanced (100 k-ohms, load)
Phones	8 ohms to 1 k-ohm, unbalanced
Frequency response	70 Hz to 10,000 Hz (Normal) 20 Hz to 20,000 Hz (Hi-Fi)
Wow and flutter	Less than 0.005% WRMS (Hi-Fi)

TIMER

Clock reference	Quartz-crystal
Program capacity	1-year programmable timer/8 programs
Memory backup time	Min. 3 minutes

ACCESSORIES

Provided accessories	S-Video cable (4-pin), Infrared remote control unit, "R6/AA/UM-3" battery X 2
Optional accessory	Wired remote control RM-G30U

Specifications shown are in SP mode unless otherwise specified.
Design and specifications subject to change without notice.

COPYRIGHT © 1993 VICTOR COMPANY OF JAPAN, LTD

No. 9286
November 1993

TABLE OF CONTENTS

Section Title Page

Important Safety Precautions

INSTRUCTIONS

1. DISASSEMBLY MECHANISM ADJUSTMENT

1.1 DISASSEMBLY 1-1
1.1.1 Top cover 1-1
1.1.2 Front panel assembly 1-1
1.1.3 Bottom cover 1-1
1.1.4 Video interface board assembly 1-2
1.1.5 Cassette housing assembly 1-2
1.1.6 Cassette housing installation 1-2
1.1.7 Switching regulator assembly 1-3
1.1.8 Rec amp board assembly 1-3
1.1.9 Main deck assembly 1-3
1.2 MECHANISM ADJUSTMENT 1-4
1.2.1 Precautions 1-4
1.2.2 Check without cassette housing 1-4
1.2.3 Manually removing cassette tape 1-4
1.2.4 Test equipment 1-4
1.2.5 Using the SR-S360E Presetting Unit 1-5
1.3 MAIN MECHANISM PARTS 1-6
1.4 INSPECTION AND MAINTENANCE 1-8
1.4.1 Suggested servicing schedule for main components 1-8
1.5 MAIN PARTS REMOVAL AND REPLACEMENT 1-9

2. ELECTRICAL ADJUSTMENT

2.1 PRECAUTION 2-1
2.1.1 Required test equipment 2-1
2.1.2 Required adjustment tools 2-1
2.1.3 Colour bar signal and pattern 2-1
2.2 SWITCHING REGULATOR CIRCUIT 2-2
2.2.1 5V DC OUTPUT VOLTAGE 2-2
2.3 SERVO CIRCUIT 2-2
2.3.1 PB SWITCHING POINT 2-2
2.3.2 Slow tracking preset 2-2
2.3.3 V.PULSE POSITION 2-3
2.4 VIDEO CIRCUIT 2-4
2.4.1 VIDEO EE level 2-4
2.4.2 Y comb gain 2-4
2.4.3 2H delayed colour level 2-4
2.4.4 Y comb 2-4
2.4.5 REC colour level 2-5
2.4.6 VIDEO REC/PB level 2-5
2.4.7 VHS SP mode VIDEO REC/PB freq. EQ 2-5
VHS LP mode VIDEO REC/PB freq. EQ 2-6
2.4.8 S-VHS mode VIDEO REC/PB freq. EQ 2-6
2.5 AUDO CIRCUIT 2-7
2.5.1 NORMAL AUDIO bias level 2-7
2.5.2 FM AUDIO EE level 2-7
2.5.3 FM AUDIO REC FM level 2-7
2.6 ON SCREEN CIRCUIT 2-8
2.6.1 Dot clock 2-8
2.6.2 Sub carrier 2-8
2.7 TIMER CIRCUIT 2-8
2.7.1 Timer clock 2-8

3. CHARTS AND DIAGRAMS

3.1 CIRCUIT BOARD LOCATION 3-1
3.2 GENERAL INFORMATION 3-2
3.2.1 Connections 3-2
3.2.2 Disconnecting the flatwire 3-2
3.2.3 Indications 3-2
3.2.4 Schematic diagram values 3-2
3.2.5 Signal flow in the schematic 3-2

Section Title Page

3.3 BOARD INTERCONNECTION 3-3
3.4 POWER SYSTEM BLOCK DIAGRAM 3-5
3.5 SERVO BLOCK DIAGRAM 3-7
3.6 VIDEO AND VIDEO UNIT BLOCK DIAGRAMS 3-9
3.7 SWITCHING REGULATOR,REGULATOR (1) AND (2) SCHEMATIC DIAGRAMS 3-13
3.8 SWITCHING REGULATOR,REGULATOR (1),(2) AND PRIMARY CIRCUIT BOARDS 3-15
3.9 SERVO SCHEMATIC DIAGRAM 3-17
3.10 AUDIO SW SCHEMATIC DIAGRAM 3-19
3.11 MECHACON SCHEMATIC DIAGRAM 3-21
3.12 AUDIO/SERVO/MECHACON (A/S/M) CIRCUIT BOARD 3-23
3.13 AUDIO UNIT SCHEMATIC DIAGRAM 3-25
3.14 AUDIO UNIT CIRCUIT BOARD 3-27
3.15 VIDEO UNIT CIRCUIT BOARD 3-29
3-16 VIDEO UNIT SCHEMATIC DIAGRAM 3-31
3-17 VIDEO INTERFACE SCHEMATIC DIAGRAM 3-34
3-18 VIDEO INTERFACE CIRCUIT BOARD 3-37
3-19 ON SCREEN SCHEMATIC DIAGRAM 3-39
3.20 DECK TERMINAL,LOADING MDA,CASSETTE HOUSING AND CAPSTAN MDA SCHEMATIC DIAGRAMS 3-41
3.21 DECK TERMINAL,LOADING MDA,CASSETTE HOUSING, A/CTL HEAD CIRCUIT BOARDS 3-42
3.22 REC CIRCUIT BOARD 3-43
3.23 REC AND FMA SCHEMATIC DIAGRAMS 3-45
3.24 PAUSE TERMINAL AND FLYING ERASE SCHEMATIC DIAGRAMS 3-48
3.25 PAUSE TERMINAL AND FLYING ERASE CIRCUIT BOARDS 3-49
3.26 SWITCH/JACK SCHEMATIC DIAGRAM 3-51
3.27 SWITCH/JACK CIRCUIT BOARD 3-51
3.28 TIMER AND SWITCH/DISPLAY SCHEMATIC DIAGRAMS 3-54
3.29 TIMER,SWITCH/DISPLAY AND IFR CIRCUIT BOARDS 3-57
3.30 PRE AMP SCHEMATIC DIAGRAM 3-59
3.31 PRE AMP CIRCUIT BOARD 3-61
3.32 SOUND MENU SCHEMATIC DIAGRAM 3-63
3.33 SOUND MENU CIRCUIT BOARD 3-64
3.34 REMOTE CONTROLLER SCHEMATIC DIAGRAM 3-65

4. EXPLODED VIEWS AND PARTS LIST

4.1 PACKING ASSEMBLY <M1> 4-1
4.2 CABINET ASSEMBLY <M2> 4-2
4.3 CHASSIS ASSEMBLY <M3> 4-3
4.4 MECHANISM ASSEMBLY <M4> 4-4
4.5 REMOTE CONTROL UNIT<M5> 4-6

5. ELECTRICAL PARTS LIST

SWITCHING REGULATOR BOARD ASSY <01> <02> <18> 5-2
A/S/M BOARD ASSEMBLY <04> 5-3
VIDEO UNIT BOARD ASSEMBLY <05> 5-4
AUDIO UNIT BOARD ASSEMBLY <09> 5-6
VIDEO INTERFACE BOARD ASSEMBLY <10> 5-7
AUDIO/CTL HEAD BOARD ASSEMBLY <12> 5-10
SW/DISPLAY BOARD ASSEMBLY <28> 5-11
IFR BOARD ASSEMBLY <34> 5-12
JACK BOARD ASSEMBLY <36> 5-12
SW/JACK BOARD ASSEMBLY <37> 5-12
PAUSE TERMINAL BOARD ASSEMBLY <38> 5-12
PRE AMP BOARD ASSEMBLY <42> 5-12
REC AMP BOARD ASSEMBLY <43> 5-13
FLYING ERASE BOARD ASSEMBLY <46> 5-14
DECK TERMINAL BOARD ASSEMBLY <51> 5-14
LOADING MD BOARD ASSEMBLY <55> 5-14
CASSETTE HOUSING BOARD <56> 5-14
PRIMARY BOARD ASSEMBLY <60> 5-15
UPPER DRUM BOARD <62> <63> 5-15
SOUND MENU BOARD ASSEMBLY <71> 5-15

Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

● Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded (▨) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers
   4) Insulation sheets for transistors
   5) Barrier

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

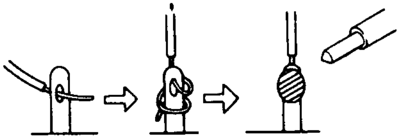


Fig. 1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10–15 kg of force in any direction will not loosen it.

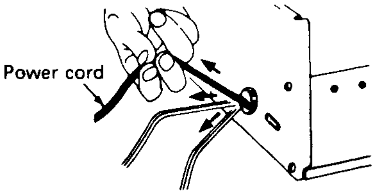


Fig. 2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.
    1) **Connector part number** : E03830-001
    2) **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
    3) **Replacement procedure**
       (1) Remove the old connector by cutting the wires at a point close to the connector.
       Important : Do not reuse a connector (discard it).

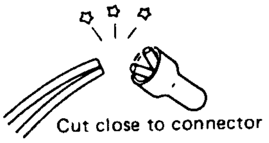


Fig. 3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

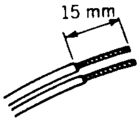


Fig. 4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

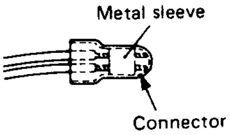


Fig. 5

(4) As shown in Fig. 6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

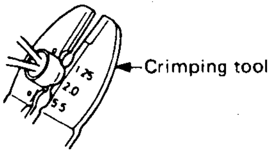
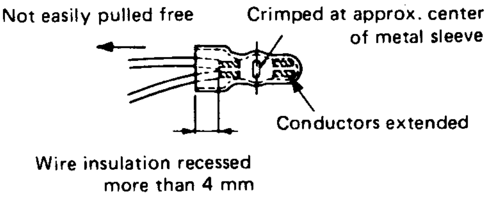


Fig. 6

(5) Check the four points noted in Fig. 7.



Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig. 7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. **Insulation resistance test**
   Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. **Dielectric strength test**
   Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. **Clearance distance**
   When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

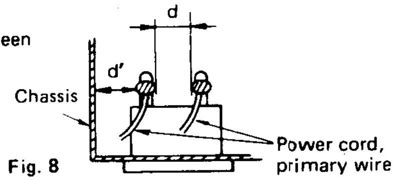


Fig. 8

4. **Leakage current test**
   Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
   Measuring Method: (Power ON)
   Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

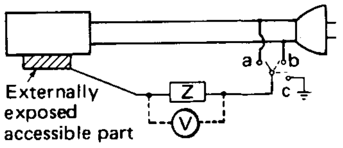


Fig. 9

5. **Grounding (Class I model only)**
   Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).
   Measuring Method:
   Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

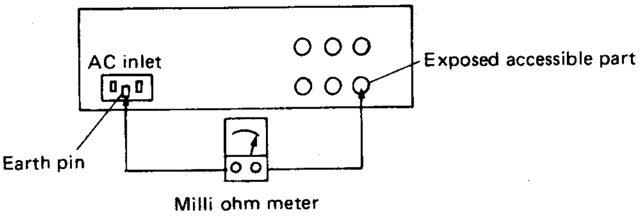


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 minute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	–	AC 1 kV 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ /500 V DC	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 µF 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SAFETY PRECAUTIONS

Warning Notice
FOR YOUR SAFETY (Australia)

1. Insert this plug only into effectively earthed three-pin power outlet.
2. If any doubt exists regarding the earthing, consult a qualified electrician.
3. Extension cord, if used, must be three-core correctly wired.

IMPORTANT (In the United Kingdom)
Mains Supply (AC 240 V~)
WARNING – THIS APPARATUS
MUST BE EARTHED

The wires in this mains lead are coloured in accordance with the following code;

GREEN-and-YELLOW:	EARTH
BLUE:	NEUTRAL
BROWN:	LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.
The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the safety earth symbol ⏚ or coloured GREEN or GREEN-AND-YELLOW. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or which is coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

POWER SYSTEM
Connection to the mains supply
This unit operates on voltage of 220 to 240 V AC, 50/60 Hz.

This unit is produced to comply with Directives 76/889/EEC, 82/499/EEC, 87/308/EEC, and IEC Publ.65.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION
To prevent electric shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel.

Note:
The rating plate and the safety caution are on the rear of the unit.

COPYRIGHT © 1993 VICTOR COMPANY OF JAPAN, LTD.

Printed in Japan

S-VHS 625

- Cassettes marked "S-VHS" and "VHS" can be used with this video cassette recorder. However, S-VHS recordings are possible only with cassettes marked "S-VHS".

CONTENTS

Precautions 3
VCR
Video Cassettes
Remote Control Unit
Mode-Lock Function
Features 4
Controls And Connectors
Front Panel 5
Foldout Control Panel 7
Rear Panel 8
Remote Control Unit 9
Connections 11
Handling Video Cassettes 12
Loading
Unloading
Accidental Erasure Prevention
Displays
Display Panel 13
Realtime Tape Counter 13
On-Screen Mode Display 14
LCD (Liquid Crystal Display) 14
Clock Setting
Procedure 15
Summer Time Adjust 16
Playback
Basic Procedure 17
Rewind and Fast-Forward 17
Still and Frame Advance 17
Shuttle Search 18
Variable-Speed Search 18
Adjustments And Effects In Playback
Tracking Control 19
V.Lock Adjustment 19
Soundtrack Selection 20
Picture Control 20
Sound Control 20
Useful Functions For Playback
Repeat Playback 21
Skip Search 21
Blank Search 21
Index Search 22
Counter Memory 22
Next-Function Memory 23
External Timer Playback 23
Recording
Basic Procedure 24
Hi-Fi Audio Recording Level Adjustment 24
Retake 25
Remaining Tape Time Display 25
24-Hour Timer Recording (Express Timer) 26
Programmable Timer Recording
Local Programming 27
Remote Programming 29
Editing (Using SR-S360E As Recorder)
Preparations 30
Assemble Editing 30
Insert Editing 31
Editing (Using SR-S360E As Player)
Preparations 32
Assemble Editing (Basic) 32
Random Assemble Editing 33
Customising 35
On-Screen Set Up
Remote Control Setting
Messages
Display Panel Messages 37
Error Messages 38
Troubleshooting Guide 39
Specifications 41

PRECAUTIONS

VCR

- DO NOT use the recorder in places subject to the following conditions:
  - extreme heat, cold, or humidity,
  - dust,
  - near appliances generating strong magnetic fields,
  - vibrations, and
  - poor ventilation.
- Be careful of moisture condensation.
  DO NOT use the recorder immediately after moving it from a cold place to a warm place. As water vapour will condense on the still-cold video head drum and tape guides, immediate operation may damage the tape and the recorder.
- Handle the recorder carefully.
  - DO NOT block the ventilation openings.
  - DO NOT place anything heavy on the recorder.
  - DO NOT place liquids on the top cover of the recorder.
  - Use in horizontal (flat) position only.
- During transportation,
  - Avoid excessive shocks to the recorder during packing and transportation.
  - Before packing, be sure to remove the cassette from the recorder.

VIDEO CASSETTES

- This recorder uses S-VHS and VHS cassettes.
  S-VHS: SE-180 for 180 (SP) or 360 (LP) minutes of recording, SE-120 for 120 (SP) or 240 (LP) minutes, SE-90 for 90 (SP) or 180 (LP) minutes, SE-60 for 60 (SP) or 120 (LP) minutes, and SE-30 for 30 (SP) or 60 (LP) minutes.
  VHS: E-240 for 240 (SP) or 480 (LP) minutes of recording, E-180 for 180 (SP) or 360 (LP) minutes, E-120 for 120 (SP) or 240 (LP) minutes, E-90 for 90 (SP) or 180 (LP) minutes, E-60 for 60 (SP) or 120 (LP) minutes, and E-30 for 30 (SP) or 60 (LP) minutes.
- DO NOT expose the cassettes to direct sunlight. Keep them away from heaters.
- DO NOT expose the cassettes to extreme humidity, violent vibrations or shocks, strong magnetic fields (near a motor, transformer or magnet), or excessive dust.
- Place the cassettes in cassette cases and position vertically.

REMOTE CONTROL UNIT

- Avoid violent shocks. Be especially careful not to drop the unit.
- DO NOT allow liquid to spill into the unit or dampen the terminals.
- DO NOT place heavy objects on the unit.
- DO NOT leave the unit in places subject to direct sunlight or extremely high temperatures.

MODE-LOCK FUNCTION

- This recorder is equipped with a mode-lock function which disables control buttons, locking the VCR into the currently engaged mode.
- Set the MODE LOCK switch on the front panel to "ON". All operation controls (except setting switches) are disabled.

FEATURES

High-Resolution S-VHS Pictures with Advanced Processing Circuitry

JVC's Super VHS technology uses a wider frequency bandwidth and separates the video signal into individual brightness (Y) and colour (C) components to deliver superb, high-resolution pictures with more than 400 lines of horizontal resolution. To optimise Super VHS picture performance, the SR-S360E incorporates advanced processing circuitry including a Video Noise Reduction Circuit, Twin-Path Detail Enhancer, Dynamic Double Limiter, Video Switching Noise Compensator.

Hi-Fi Stereo with Sound Control

Two rotary FM-audio heads record Hi-Fi audio signals on a separate layer of tape to assure superb sound quality with extended frequency response of 20 Hz to 20 kHz and minimal wow and flutter. A built-in four-mode Sound Control sound processor offers more expansive, theatre-like sound at the touch of a button. Stereo Wide and Simulated Stereo modes are available and each can be combined with the Theater or Music mode for sound enhancement appropriate to the type of programme.

Jog/Shuttle Controls

Locate edit points quickly and accurately with these touch-sensitive controls. Use the Shuttle ring for fast searching, then use the Jog dial to pinpoint the exact frame you're looking for.

Quick-Response Full-Loading Mechanism

This loading mechanism speeds up tape loading and ensures near-instant response to all tape control commands. This is particularly helpful in recording since the tape starts and stops when you want it to.

Various Tape Access Functions Including Full and Index Repeat Functions

A full set of sophisticated search functions are available. In addition to Index Search, Skip Search, Blank Search, and Retake functions, Full and Index Repeat Playback capability is provided for automatic repeat playback of either the entire tape or a specified segment between index codes.

Convenient Editing Functions Including Rotary Erase Head, Insert Editing, and Random Assemble Editing

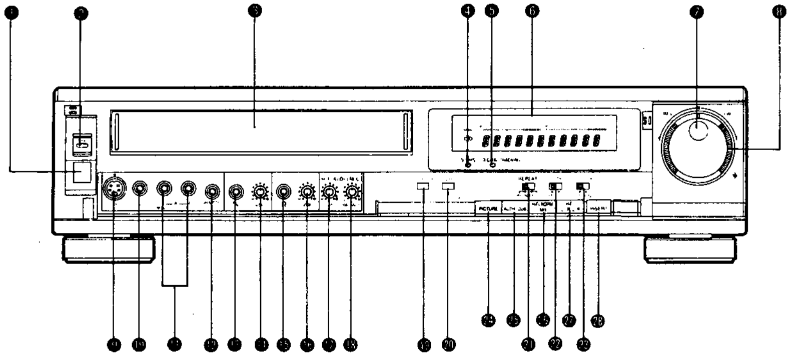
The SR-S360E is equipped with several useful editing functions including a rotary erase head for clean, glitch-free transitions between old and new material, insert editing capability, and a random assemble editing function for convenient automatic editing of up to eight specified sequences. Audio dubbing on the normal audio track is also available.

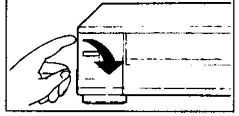
Other Features

- "Message" display panel
- Multi-language on-screen display
- Full-function wireless remote control
- 1-Year/8-event programmable timer
- External timer playback
- Mode-lock function
- Automatic head cleaner
- Digital AV Tracking
- Optional wired remote control (RM-G30U)

CONTROLS AND CONNECTORS

FRONT PANEL




To open the front panel cover, pull forward with finger.

① **Infrared beam sensor window**
Point the remote control at this window.

② **OPERATE button with LED indicator**

③ **Cassette loading slot**

④ **S-VHS indicator**
Lights when an S-VHS cassette is loaded. Remains lit during recording or playback in the S-VHS mode.

⑤ **DIGITAL TRACKING indicator**

⑥ **Display Panel** (☞ p.13)

⑦ **JOG dial**
Use for frame advance.

⑧ **SHUTTLE ring**
Use for variable-speed search.

⑨ **S-VIDEO IN connector**

⑩ **VIDEO IN connector (RCA)**

⑪ **AUDIO IN (L,R) connectors (RCA)**

⑫ **REMOTE connector**
Connect to the optional wired remote control (RM-G30U).

⑬ **Microphone input connector**
Connect to a microphone.

⑭ **Microphone level control**

⑮ **Headphone connector**
Connect to a headphone.

⑯ **Headphone level control**
Adjusts the level of the audio output from the headphone jack.

⑰ **Hi-Fi AUDIO REC LEVEL control**

⑱ **Hi-Fi AUDIO REC BALANCE control**

⑲ **VIDEO INPUT SEL button**
Selects input video signal for recording.

⑳ **S-VHS button**
Selects the recording mode: S-VHS or VHS when using an S-VHS tape.

㉑ **REPEAT OFF/INDEX/FULL switch**
Used for repeat playback.
FULL: The entire tape is automatically played back. At tape end, the VCR rewinds automatically and starts playback again from the beginning.
INDEX: Playback is automatically repeated between two index codes. When an index code is reached, the VCR rewinds automatically to the previous index code and starts playback again.
OFF: To cancel repeat playback.

㉒ **EXT TIMER ON/OFF switch**
Used for external timer playback (☞ p.23).

㉓ **MODE LOCK ON/OFF switch**
Set to ON to lock the VCR in its current mode and disable all control buttons.

㉔ **PICTURE button**
Engages the Picture Control function (☞ p.20). Various video processing modes are available.

㉕ **AUDIO DUB. button**
Engages audio dubbing (☞ p.31).

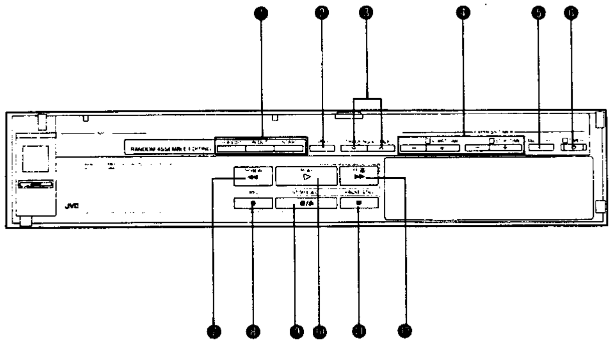
㉖ **Hi-Fi/NORM/MIX button**
Selects the soundtrack from Hi-Fi, Normal, or Hi-Fi + Normal. Selected mode is displayed on the screen.

㉗ **Hi-Fi L+R/L/R button**
Selects the audio channel from Stereo, Left, or Right. Selected mode is displayed on the screen.

㉘ **INSERT button.**
Used for insert editing (☞ p.31).

CONTROLS AND CONNECTORS (Continued)

FOLDOUT CONTROL PANEL



① **RANDOM ASSEMBLE EDITING buttons**
Used for random assemble editing (☞ p.33).

② **SP/LP button**
Selects the recording speed: Standard Play or Long Play.

③ **TRACKING/V.LOCK buttons**
Adjusts TRACKING in playback picture and V. Lock in still picture.

④ **EXPRESS TIMER buttons**
Used for express timer programming (☞ p.26).

⑤ **CANCEL/C.RESET button**
- Resets the tape counter.
- Cancels the programmed timer data.

⑥ **TIMER button**
Engages the Timer Standby mode after the timer has been programmed (☞ p.27).

⑦ **REW button**
- Starts rewind when pressed in the Stop mode.
- Starts high-speed shuttle search when pressed in the Play mode.

⑧ **REC button**
To start recording, press the PLAY button ⑩ while pressing this button.

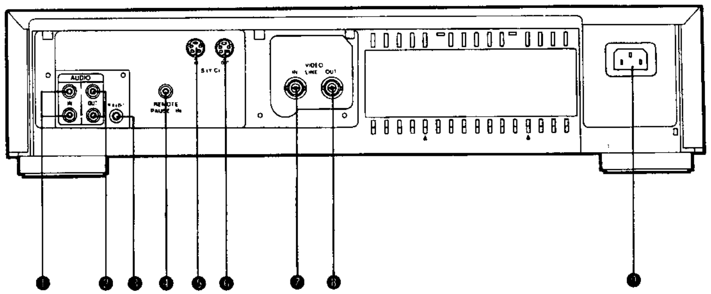
⑨ **STOP/EJECT button**
- Stops the tape in any mode.
- Ejects the cassette when pressed in the Stop mode.

⑩ **PLAY button**
- Starts playback.
- Re-starts normal playback when pressed in the Still or Search mode.
- Re-starts recording when pressed in the Record-Pause mode.

⑪ **PAUSE/STILL button**
- Temporarily stops recording when pressed in the Record mode.
- Displays a still picture when pressed in the Play mode.
- Advances the frame when pressed in the Still mode.

⑫ **FF button**
- Starts fast-forward when pressed in the Stop mode.
- Starts high-speed shuttle search when pressed in the Play mode.

REAR PANEL



① **AUDIO IN (L, R) connectors**

② **AUDIO OUT (L, R) connectors**

③ **R.A.EDIT connector**
- Connect to another VCR's REMOTE PAUSE connector for random assemble editing (☞ p.33).

④ **REMOTE PAUSE IN connector**
- Connect to the player's REMOTE PAUSE OUT connector (if provided) when using this VCR as a recorder in editing.

⑤ **S-VIDEO IN connector**

⑥ **S-VIDEO OUT connector**

⑦ **VIDEO LINE IN connector (BNC)**

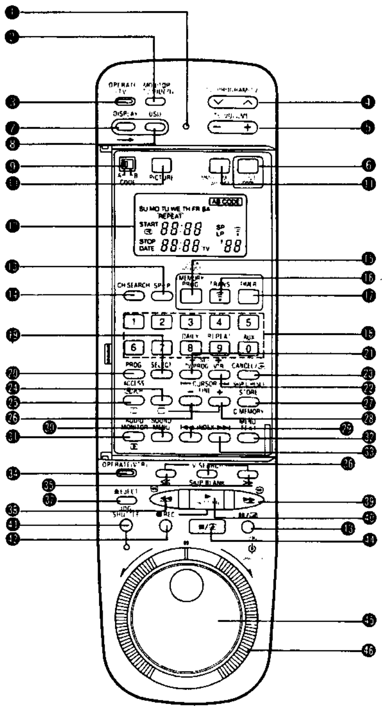
⑧ **VIDEO LINE OUT connector (BNC)**

⑨ **AC IN socket**
Connect to AC 220 — 240 V, 50/60 Hz power outlet.

REMOTE CONTROL UNIT

This remote control can operate most of the VCR's functions. In addition, it can operate basic functions on TVs produced by JVC and other manufacturers (☞ p.35).

- Point the remote control at the VCR's infrared beam sensor window.
- The maximum operating distance is about 8 m.


①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲
⑳
㉑
㉒
㉓
㉔
㉕
㉖
㉗
㉘
㉙
㉚
㉛
㉜
㉝
㉞
㉟
㊱
㊲
㊳
㊴
㊵
㊶
㊷
㊸
㊹
㊺
㊻
OPERATE TV
MONITOR TV/VIDEO
TV PROGRAM
DISPLAY
OSD
TV VOLUME
A/B CODE
PICTURE
AB CODE
SU MO TU WE TH FR SA
REPEAT
START
STOP
DATE
SP
LP
TV
CH SEARCH
SP/LP
MEMORY PROG
TRANS
TIMER
DAILY
REPEAT
AUX
PROG
SELECT
CANCEL
CURSOR
LINE
STORE
C.MEMORY
ACCESS
AUDIO MONITOR
SOUND MENU
INDEX
MENU TEXT
OPERATE (VTR)
V.SEARCH
SKIP/BLANK
EJECT
JOG SHUTTLE
REC

① **Reset button**
To clear the LCD display's memory, insert a pointed object into the hole and press the initialise button inside. Normally do not touch this button.

TV Operation buttons (designated TV models only)

② **MONITOR (TV/VIDEO) button**
Selects the TV's operating mode.

③ **OPERATE (TV) button**
Turns the TV power on.

④ **TV PROGRAM (TV) button (∨/∧)**
For TV receiver channel selection.

⑤ **TV VOLUME button (–/+)**
Adjusts the TV's sound volume.

⑥ **TV/VIDEO code button**
Used for TV code setting (☞ p.35).

⑦ **DISPLAY button**
Selects the counter information displayed on-screen (elapsed tape time, remaining tape time, date). Press OSD to cancel display.

⑧ **OSD (On-Screen Display) button**
Obtains 5-second on-screen mode display. Also used for on-screen setup (☞ p.35).

⑨ **A/B code select switch**
Normally set to "A" (☞ p.36).

⑩ **PICTURE button**
Engages the Picture Control function (☞ p.20). Various video processing modes are available.

⑪ **SUMMER TIME ADJUST button**
Sets the remote control's clock ahead or back by one hour (☞ p.16).

⑫ **LCD (Liquid Crystal Display) panel**
Refer to this panel when programming the remote control's built-in timer memory.

⑬ **SP/LP button**
Selects recording speed.

⑭ **CH SEARCH button**
No effect on this VCR.

⑮ **CLOCK ADJUST/MEMORY PROG. button**
- Adjusts the clock (☞ p.15).
- Programs the remote control's timer memory (☞ p.27).

⑯ **TRANS button**
Transfers the data held in the remote control's timer or clock memory to the recorder.

⑰ **TIMER button**
Engages the Timer Standby mode after the timer has been programmed.

⑱ **Multi-purpose numeric keys**

Clock setting:	☞ p.15.
LCD timer programming:	☞ p.29.
Index Search:	☞ p.22.

⑲ **SELECT button**

⑳ **PRG. button**
Engages the VCR's Timer Set mode.

㉑ **SET – button**

㉒ **SET + button**

㉓ **CANCEL/C.RESET button**
- Clears the preset timer data during timer programming. (☞ p.28)
- Resets the counter to "0:00:00".

(Buttons ㉔, ㉕, ㉖, and ㉙ have no effect on this VCR.)

㉗ **COUNTER MEMORY button**
Engages the Counter Memory function when pressed in the Play mode (☞ p.22).

㉘ **INDEX button (⏮)**
Engages Index Search in the reverse direction (☞ p.22).

㉚ **SOUND MENU button**
Engages the Sound Control function (☞ p.20).

㉛ **AUDIO MONITOR button**
Selects the audio channel from Stereo, Left, or Right. Selected mode is displayed on the screen.

㉜ **MENU/TEXT button**
No effect on this VCR.

㉝ **INDEX button (⏭)**
Engages Index Search in the forward direction (☞ p.22).

㉞ **OPERATE (VTR) button**
Turns the VCR power ON or OFF.

㉟ **V.SEARCH buttons**
For forward or reverse visual search at various speeds. (☞ p.18)

㊱ **SKIP/BLANK button**
- Engages Skip Search when pressed in the Play mode (☞ p.21). Automatically advances the tape at high speed through segments from 30 seconds to 2 minutes in length.
- Engages Blank Search when pressed in the Stop mode (☞ p.21). Automatically fast-forwards or rewinds the tape to the beginning of a non-recorded section.

㊲ **EJECT button**

㊳ **REW/REW SEARCH (◀◀) button**

㊴ **FF/FF SEARCH (▶▶) button**

㊵ **PLAY(▶) button**

㊶ **JOG/SHUTTLE button**
Activates the Jog/Shuttle control. The indicator lights when the button is pressed.

㊷ **REC (●) button**

㊸ **PAUSE/STILL (II) button**

㊹ **STOP (■) button**

㊺ **JOG dial**

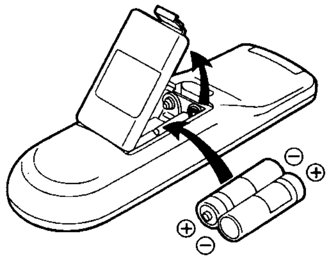
㊻ **SHUTTLE ring**

Installing the batteries

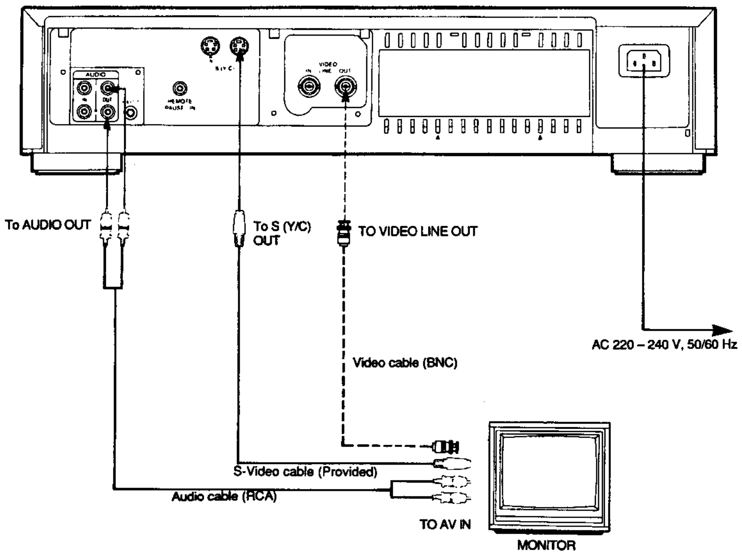
1. Remove the battery compartment cover.
2. Insert two "R6/AA/UM-3"-size batteries (provided).
3. Replace the cover.

NOTES:

- Do not mix new and old batteries.
- Do not mix different types of battery.



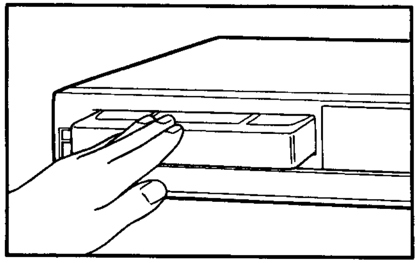
CONNECTIONS



NOTES:
- To make the most of S-VHS picture performance, we recommend you use the S-VIDEO connection.
- When connecting to a TV monitor via the S-VIDEO connector, set the TV to the VIDEO (or AV mode).
- If the connected TV monitor is not stereo-capable, connect the recorder's AUDIO OUT connectors to an audio amplifier for Hi-Fi sound reproduction.

HANDLING VIDEO CASSETTES

LOADING A CASSETTE



1. Pull the front panel cover open.
2. Insert a cassette with its label side facing you.
   - VCR power will come on automatically.
   - The tape counter resets to 0:00:00.
   - If an S-VHS cassette is inserted, the S-VHS indicator will light.
   - If a cassette is not properly inserted, it will be ejected automatically.

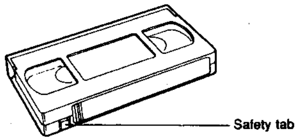
UNLOADING

1. Press STOP/EJECT while in the Stop mode.
   - Even when the VCR power is off, simply press the EJECT button to unload a cassette.
   - If the cassette will not eject, check to see if "TIMER" is displayed on the display panel. If it is, press the TIMER button to cancel the Timer Standby mode.
   - If you're going to eject a cassette via remote control with the front panel cover closed, make sure there are no obstructions to prevent the front panel cover from opening.

WARNING
- Do not insert fingers or foreign objects into the cassette loading slot. You may hurt yourself or damage the mechanism.
- Do not try to remove the cassette once automatic loading has started.

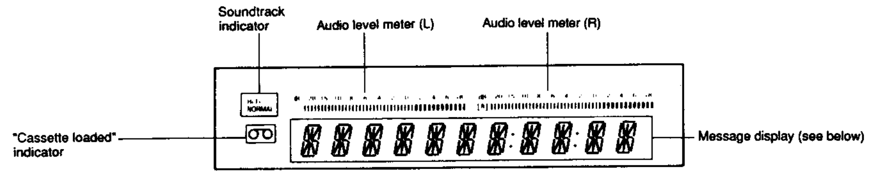
ACCIDENTAL ERASURE PREVENTION

- To prevent accidental recording on a recorded cassette, remove the safety tab.
- If the safety tab has been removed and you want to record on the cassette, cover the hole with adhesive tape.



DISPLAYS

DISPLAY PANEL


Soundtrack indicator
Audio level meter (L)
Audio level meter (R)
"Cassette loaded" indicator
Message display (see below)

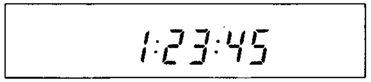
Message display
The SR-S360E's message display shows the current status of the VCR including the operation mode, tape time, clock time, etc. Here are some of the more common display examples:

DISPLAY	MODE	DISPLAY	MODE
PLAY	Play	PAUSE (with source signal)	Record-Pause
STILL	Still	FWD SEARCH	Forward Search
FF	Fast-Forward	REV SEARCH	Reverse Search
REW	Rewind	FWD SLOW	Forward Slow
REC SP (with source signal)	Record	REV SLOW	Reverse Slow
TIMER REC	Timer-Recording	EJECT	Eject

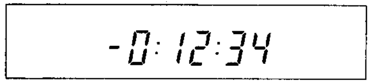
For a more comprehensive list, ☞ p.37 "MESSAGES".

REALTIME TAPE COUNTER

- Time counting is based on the recorded control signal. The counter does not function with non-recorded tape segments.
- The counter resets when a cassette is inserted, or when the C. RESET button is pressed.
- The counter reading shows elapsed time from the "zero" position.



Forward direction (from the "zero" position)

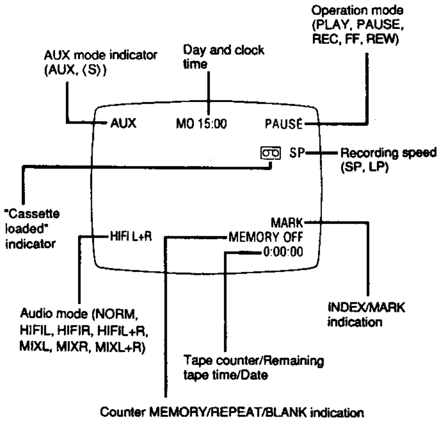


Reverse direction (from the "zero" position)

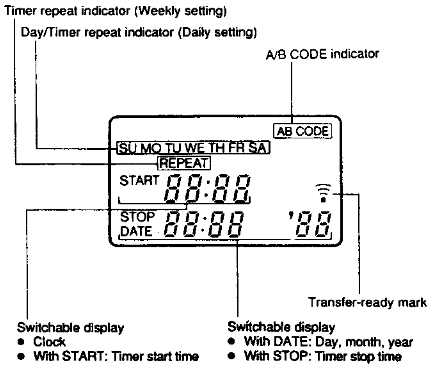
ON-SCREEN MODE DISPLAY

- In the preset mode, VCR status is displayed on the monitor screen for 5 seconds each time the operation or counter mode is changed. The "PAUSE" mode indication remains displayed for as long as the Pause mode is engaged.
- You can change the language used for on-screen messages or set the VCR not to show the display. (☞ p.35, "CUSTOMISING").
- You can call up the on-screen display at any time by pressing OSD.
  All indications corresponding to the current status are displayed for 5 seconds. Counter information (COUNT, DATE, or REMAIN) remains on the screen. Press OSD again to cancel display.
  To check counter information only, press DISPLAY.

NOTE:
- On-screen display is available only when a video signal is input to the recorder or when playing back a tape. When you need the on-screen display, be sure to input a video signal or play back a tape.


AUX mode indicator (AUX, (S))
Day and clock time
Operation mode (PLAY, PAUSE, REC, FF, REW)
AUX
MO 15:00
PAUSE
SP
Recording speed (SP, LP)
"Cassette loaded" indicator
HIFI L+R
MARK
MEMORY OFF
0:00:00
Audio mode (NORM, HIFIL, HIFIR, HIFIL+R, MIXL, MIXR, MIXL+R)
INDEX/MARK indication
Tape counter/Remaining tape time/Date
Counter MEMORY/REPEAT/BLANK indication

LCD (Liquid Crystal Display) PANEL

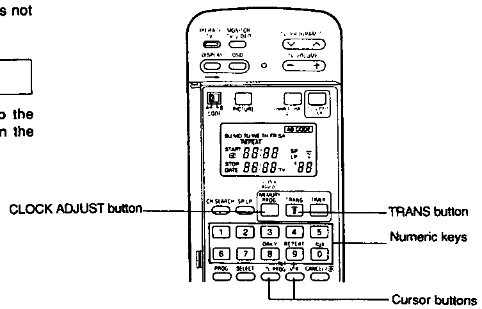

Timer repeat indicator (Weekly setting)
Day/Timer repeat indicator (Daily setting)
A/B CODE indicator
AB CODE
SU MO TU WE TH FR SA
REPEAT
START 88:88
STOP DATE 88:88 '88
Transfer-ready mark
Switchable display
• Clock
• With START: Timer start time
Switchable display
• With DATE: Day, month, year
• With STOP: Timer stop time

CLOCK SETTING

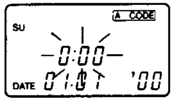
To set the clock on the VCR, first set the remote control's clock and then transfer clock data to the VCR. Timer operation is not possible if the clock has not been set.

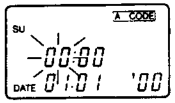
PROCEDURE

- Insert two "R6/AA/UM-3"-size batteries (provided) into the remote control. A blinking "0:00" indication appears on the LCD.

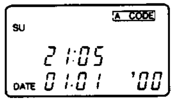


1. Press CLOCK ADJUST.
   - The hour indication will blink.

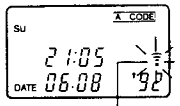




2. Enter the hour with numeric keys.
   - Always key in two digits. For a one-digit number, key in "0" first.
3. Enter the minutes with numeric keys.



4. Enter the day, month and year in the same way.
   - In year setting, set only the last two digits of the year.
   - After setting the year, the transfer-ready mark will appear and blink.
   - To make corrections, press either CURSOR button until the figure requiring correction blinks, and then correct data with numeric keys. Press CURSOR + until the transfer-ready mark appears.



Transfer-ready mark

5. Press TRANS to transfer the clock data to the VCR.
   - Time-keeping starts on both the VCR's and the remote control's clocks.
   - The day-of-the-week indication is automatically displayed.

Power Failure Indicator

- "SET CLOCK" indicates power failure. Set the clock.
  1. Press CLOCK ADJUST twice.
     - The transfer-ready mark appears.
  2. Press TRANS to transfer the clock data to the recorder.
     - Clock/timer backup time is about 3 minutes.

LCD clock corrections

1. Press CLOCK ADJUST twice.
2. Press either CURSOR button until the figure requiring correction blinks.
3. Correct data with the numeric keys.
4. Press CLOCK ADJUST twice.

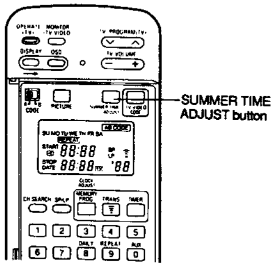
NOTES:

- If day/month data is invalid (such as 31st April), the month digits are cleared and the day digits will blink.
- If the year digits are automatically cleared in step 4, it is possible that you have input 29th February in a non-leap year.
- When the batteries are depleted, the LCD time display will change to "0:00" and start blinking. Replace all the batteries.

SUMMER TIME ADJUST

This convenient feature allows you to quickly make the annual clock adjustment to the "summer time" (daylight saving time) setting, and back again to normal time.

1. Press and quickly release the SUMMER TIME ADJUST button.
   - The LCD clock will be set forward by one hour.
   - Press TRANS to transfer the clock data to the recorder.
2. To switch back to regular time, keep the SUMMER TIME ADJUST button pressed for over 3 seconds.
   - The LCD clock will be set back by one hour.
   - Press TRANS to transfer the clock data to the recorder.



PLAYBACK

BASIC PROCEDURE

1. Load a cassette.
    - If the cassette has no safety tab, playback starts automatically.
2. Press PLAY to start playback.
3. Press STOP to stop playback.

NOTES:
- VHS/S-VHS selection is automatic.
- Tape speed selection is automatic.
- The VCR automatically rewinds at tape-end.
- If noise appears during playback, correct using the manual tracking buttons (☞ p.19).
- If a cassette with no safety tab is inserted immediately after the power cord is plugged in, a malfunction may occur. In this case, press EJECT to remove the cassette and turn the power on with OPERATE. Then insert the cassette again.

REWIND AND FAST-FORWARD

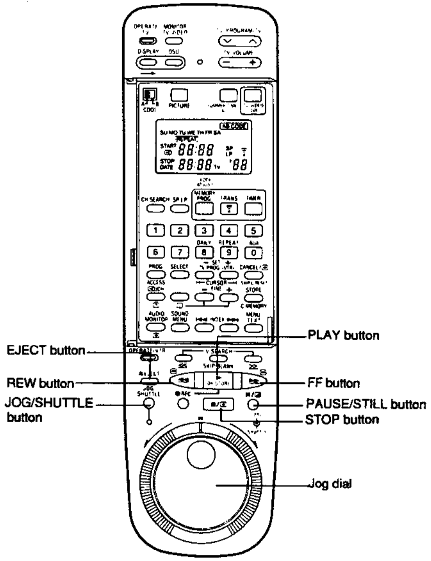
1. Press REW or FF while in the Stop mode.
2. Press STOP to stop rewind or fast-forward.

STILL AND FRAME ADVANCE

With PAUSE/STILL button
1. Press PAUSE/STILL to view a still picture.
2. Press PAUSE/STILL while in the Still mode to advance the picture frame by frame.
3. Press PLAY to resume normal playback.

With JOG dial
1. Turn the Jog dial clockwise for frame advance; counterclockwise for frame reverse. (When using the remote control, first press the JOG/SHUTTLE button.)
    - Turning the dial moves the picture one frame at a time in the corresponding direction. The tape speed corresponds to the speed the dial is rotated.
    - Releasing the dial produces a still picture.
2. Press PLAY to resume normal playback.

NOTES:
- To protect the tape, the Still mode automatically switches to the Stop mode after about 5 minutes.
- If the still picture is unstable, adjust the V.LOCK (☞ p.19).
- There is no audio during still or frame-by-frame playback.



SHUTTLE SEARCH

- Press REW while in the Play mode for high-speed reverse search.
- Press FF while in the Play mode for high-speed forward search.
- Press PLAY to resume normal playback.

NOTES:
- For brief searching, press and hold REW or FF for more than 2 seconds; normal playback resumes when the button is released.
- Some noise bars will appear during search.

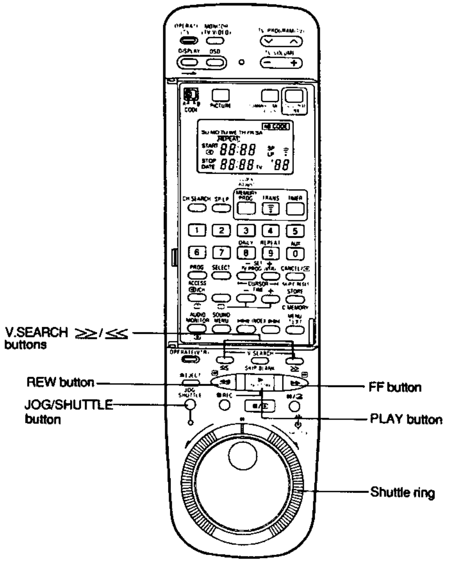
VARIABLE-SPEED SEARCH

Variable-speed search is possible using either the V.SEARCH button or the Shuttle ring. You can control both the direction and speed of tape search. From the Still or Play mode, you can go directly into fast- or slow-motion playback in either forward or reverse.

With Shuttle ring
1. Turn the SHUTTLE ring. (When using the remote control, first press the JOG/SHUTTLE button.)
    - To search in the forward direction, turn the SHUTTLE ring gradually clockwise. The farther you rotate the dial, the faster the search speed.
    - To search in the reverse direction, turn the SHUTTLE ring gradually counterclockwise. The farther you rotate the dial, the faster the search speed.
    - Releasing the ring produces a still picture.
2. Press PLAY to resume normal playback.

With V.SEARCH buttons
- To increase speed in the forward direction, press V.SEARCH ≫ repeatedly; to decrease, press V.SEARCH ≪ repeatedly. The tape will switch directions when the Still mode is passed.
- To increase speed in the reverse direction, press V.SEARCH ≪ repeatedly; to decrease, press V.SEARCH ≫ repeatedly. The tape will switch directions when the Still mode is passed.
- To resume normal playback, press PLAY.

NOTES:
- There is no audio during search.
- Some noise bars will appear during search.
- When LP recordings are played back in the Search, Still, or Frame-by-frame playback mode, the picture will be distorted and there may be loss of colour.
- When reverse search is engaged directly from forward search (or vice versa) by quickly rotating the Shuttle dial, slow-motion playback may start. In this case, set the Shuttle ring to the centre position to engage the Still mode, and then turn the ring in the desired direction.



ADJUSTMENTS AND EFFECTS IN PLAYBACK

TRACKING CONTROL

This VCR is equipped with automatic Digital Tracking to ensure the best possible picture quality.

- When playback starts, tracking is automatically adjusted.
- The DIGITAL TRACKING indicator blinks while adjusting and remains lit after completion of adjustment.
- Automatic tracking is effective only during normal playback.

If you wish to adjust tracking manually, you can override this function.

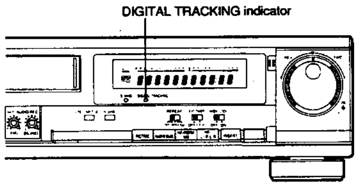
1. Press TRACKING "∧" and "∨" simultaneously to cancel the Auto Tracking mode.
   - The DIGITAL TRACKING indicator turns off.
2. Adjust tracking by pressing TRACKING "∧" or "∨" to minimise noise bars.

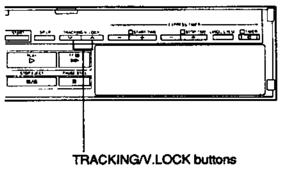
NOTES:

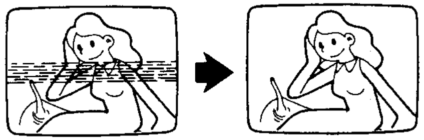
- When a new cassette is inserted, Auto Tracking resumes automatically.
- To manually return to the Auto Tracking mode, press both TRACKING buttons simultaneously.

Tracking Adjustment In Slow-motion Playback

- To adjust tracking during slow-motion playback, simply press either TRACKING button to minimise noise bars.







V.LOCK ADJUSTMENT

Vertical jitter in still pictures can be corrected with the V.LOCK buttons.

- Press either TRACKING/V.LOCK button to minimise jitter.

SOUNDTRACK SELECTION

You can select the soundtrack.

1. Press the Hi-Fi/NORM/MIX button to choose desired soundtrack. The soundtrack changes from Hi-Fi → NORM → MIX → Hi-Fi ... each time the button is pressed.
   Hi-Fi: To listen to Hi-Fi audio.
   NORM: To listen to normal audio.
   MIX: To listen to both soundtracks together.
2. If you select Hi-Fi or MIX, press Hi-Fi L+R/L/R (or remote control's AUDIO MONITOR) to choose the Hi-Fi channel. The channel changes from L+R → L → R → L+R ... each time the button is pressed.

NOTES:

- When you play back a tape which only has a normal (mono) soundtrack, you do not need to set the VCR to "NORM". This is done automatically.

PICTURE CONTROL

The SR-S360E incorporates a built-in video processor that lets you choose the type of playback picture that's best for the application.

- Press PICTURE during playback as many times as required to reach the desired setting. The display panel shows the setting for 5 seconds.

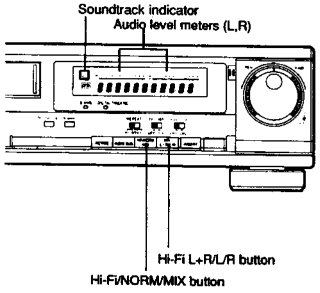
Display	When To Use
ENHANCED	When viewing tapes with noise due to repeated playback, such as rental videos.
TAPE DUB	When using this recorder as a feeder or a recorder in editing.
SOFT PIX	When you want a softer picture.
SHARP PIX	When you want a sharper picture.
OFF	When no modification is required.

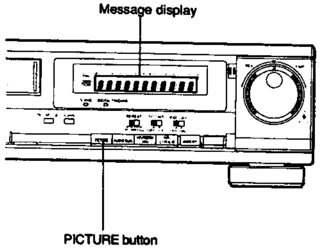
SOUND CONTROL

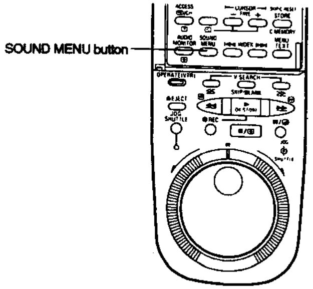
The SR-S360E incorporates a built-in sound processor that lets you enhance sound reproduction with Stereo Wide or Simulated Stereo effects.

- Press SOUND MENU during playback as many times as required to reach the desired setting. The display panel shows the setting for 5 seconds.

Display	When To Use
MUSIC → ST WIDE	When viewing stereo music programmes.
THEATER → ST WIDE	When viewing stereo films.
MUSIC → SIM STEREO	When viewing monaural music or sports programmes.
THEATER → SIM STEREO	When viewing monaural films.
OFF	When no modification is required.





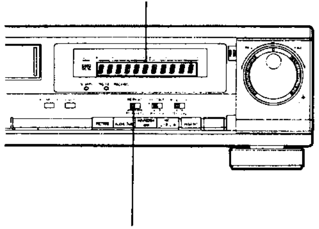


USEFUL FUNCTIONS FOR PLAYBACK

REPEAT PLAYBACK

You can set the VCR to automatically repeat playback of the entire tape (FULL) or a specified indexed portion (INDEX).

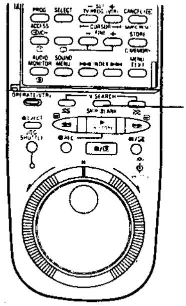
1. Set the REPEAT OFF/INDEX/FULL switch to choose desired repeat mode.
   - FULL: Playback of the entire tape is repeated automatically. At tape end, the VCR automatically rewinds and starts playback again from the beginning.
   - INDEX: Playback of the section between two index codes is repeated automatically. When the VCR reaches an index code, it automatically rewinds to the previous index code and starts playback again.
   - OFF: To cancel repeat playback.
2. Press PLAY. Repeat playback starts.
   - During rewind in the repeat playback mode, the "REPEAT" indication appears on the display and the monitor screen.
3. Press STOP to stop repeat playback.



SKIP SEARCH

You can skip over unwanted segments during playback.

- Press SKIP/BLANK from 1 to 4 times in the Play or Still mode. The VCR will fast-motion through 30 seconds to 2 minutes of tape depending on how many times you press the button.
- Playback resumes automatically.
- Press PLAY to cancel Skip Search.



BLANK SEARCH

This function lets you quickly locate the blank portion of a partially recorded tape.

- Press SKIP/BLANK in the Stop mode. The VCR automatically fast-forwards or rewinds to the end of the recorded portion of tape and stops.
- If the tape is recorded all the way to the end, the VCR stops at the end of the tape.
- Press PLAY or STOP to cancel Blank Search.

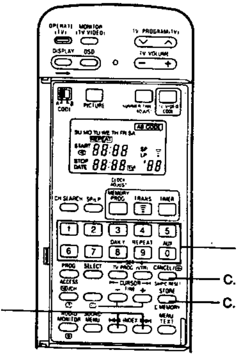
INDEX SEARCH

This function gives you quick access to any one of up to 9 index codes in either direction. The recorder automatically marks index codes at the beginning of each recording.

1. Press INDEX ►►| or |◄◄ in the Play or Stop mode. "INDEX+1" or "INDEX–1" appears on the display panel. Search will begin in the corresponding direction.
2. When accessing index numbers 2 through 9, press INDEX repeatedly until the correct index number is displayed.
   - When the specified index code is found, playback will start automatically.
   - Press PLAY or STOP to cancel Index Search.

NOTES:

- If the end of the tape is reached during Index Search, the mode is canceled and the tape is rewound to the beginning.



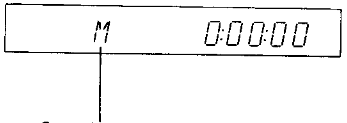
COUNTER MEMORY

Allows you to automatically locate a specific tape position in rewind. Useful when you wish to see the same tape segment again or view the segment you have just recorded.

1. Press C.RESET at the position you wish to locate later.
   - The counter resets to "0:00:00".
2. Press C.MEMORY.
   - "M" appears at the leftmost digit on the display panel.
3. When you wish to return to the zero-marked position, stop the tape and press REW.
   - The tape will stop at counter "zero" (an error of a few seconds can be expected).
   - Automatic start of playback is possible when this function is used in combination with Next-Function Memory (see next page).

NOTES:

- Once you have used the Counter Memory function, cancel it by pressing C.MEMORY ("M" disappears), otherwise the tape will always stop at counter "zero" in rewind or fast-forward.

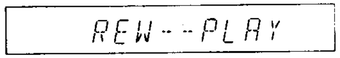


USEFUL FUNCTIONS FOR PLAYBACK (Continued)

NEXT-FUNCTION MEMORY

You can specify the mode (Play, Eject, Timer Standby, or Power Off) you want to enter after rewind immediately after pressing the REW button.

1. Press REW while in the Stop mode.
2. Press the corresponding button (PLAY, EJECT, TIMER, or OPERATE) within 2 seconds.
   - The VCR automatically enters the selected mode when rewinding ends.
   - When used with the Counter Memory function (see previous page), the VCR enters the selected mode at counter "zero" rather than at the beginning of the tape.
   - During rewind, the corresponding indication appears on the display panel (☞ p.37).
   - To cancel the memory during rewind, press STOP (for Play or Eject Memory), or OPERATE (for Timer Standby Memory or Power Off Memory).

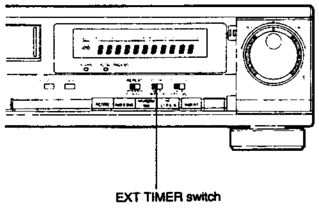


Appears during rewind (in PLAY memory).

EXTERNAL TIMER PLAYBACK

Automatic start of playback is possible using an external timer unit. In combination with the Repeat Playback function, this makes possible unattended automatic repeat playback.

1. Plug the VCR's power cord into an external timer.
2. Load a cassette. Be sure the external timer's power is turned on.
3. Set the EXT TIMER switch to ON.
4. Set the external timer.
   - The VCR turns on when power is supplied from the external timer at the preset time. Playback starts automatically.
   - If the VCR remains in timer standby status for longer than VCR clock's backup time (about 3 minutes), the clock will be cleared. Refer to "Power Failure Indicator" (☞ p.16) to reset the clock.



NOTE:

- When using the external timer in combination with Repeat Playback, we recommend you set the repeat playback mode to "Full Repeat" (☞ p.21). If "Index Repeat" is selected, the VCR may fail to detect the first index code when the power is activated and repeat playback may be engaged at the next indexed portion.

RECORDING

BASIC PROCEDURE

- Connect necessary components correctly.

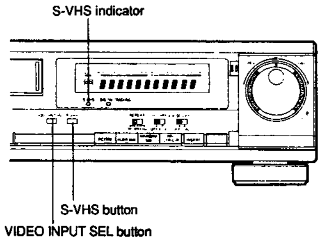
1. Load a cassette with safety tab in place.
2. Press VIDEO INPUT SEL to select the video input mode.
   - Selected input is displayed on the display panel and the monitor screen as shown below.

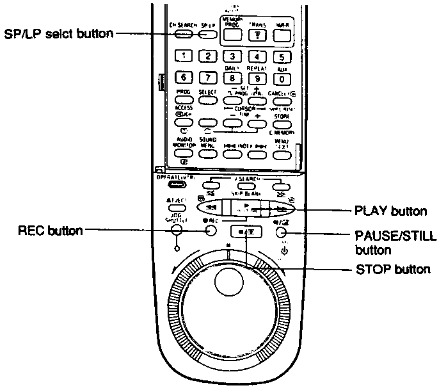
Input	Terminal	Display panel	Monitor
VIDEO	Rear	AUX INPUT	AUX
	Front	FRONT AV	
S-VIDEO	Rear	S-INPUT	(S)
	Front	FRONT(S)	

   - Front panel connectors cannot be used in combination with rear panel connectors. If one of the front panel connectors (S-VIDEO/VIDEO/AUDIO) is used, then all other inputs must also be via the front panel connectors.
3. Select the recording speed with SP/LP.
   - Selected recording speed is displayed on the display panel and the monitor screen.
4. Adjust the Hi-Fi audio recording level as desired (see below).
5. Press PLAY while pressing REC.
   - Recording starts.
6. To temporarily stop recording, press PAUSE/STILL.
7. To re-start recording, press PLAY.
8. To end recording, press STOP.

NOTES:

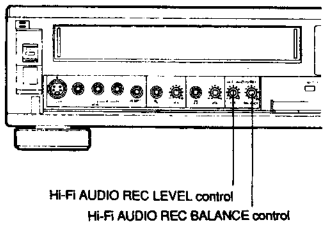
- The VCR automatically rewinds when the tape ends.
- The VCR automatically stops when Record-Pause continues for more than 5 minutes.
- The input signal cannot be changed while recording is in progress. To change the input mode, press PAUSE/STILL, then change the input mode.
- When recording is resumed after Pause, a few of the frames recorded before Pause will be replaced by the new recording. This is to reduce picture distortion and is not a malfunction.
- When recording in the VHS mode using an S-VHS tape, press the S-VHS button to turn off the S-VHS indicator.
- Elapsed recording time will appear on the display panel (for 5 seconds) and the monitor screen when DISPLAY is pressed. To switch off the monitor's display, press the remote control's OSD button.





HI-FI AUDIO RECORDING LEVEL ADJUSTMENT

In most cases, you'll get optimum results by setting the Hi-Fi AUDIO REC LEVEL and BALANCE controls to the centre position. For more precise adjustment, simply turn the controls while referring to the audio level meters on the display panel.

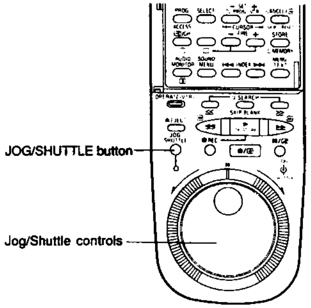

Hi-Fi AUDIO REC LEVEL control
Hi-Fi AUDIO REC BALANCE control

RECORDING (Continued)

RETAKE

Allows you to re-locate a previous edit-out point while in the Record-Pause mode.

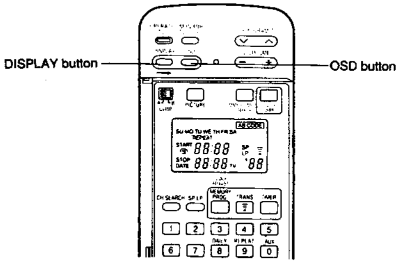
1. Simply turn the SHUTTLE ring or JOG dial while in the Record-Pause mode (when using the remote control unit, first press the JOG/SHUTTLE button). The monitor screen changes from EE to the playback signal. Releasing it engages the Record-Pause mode.
2. Press PLAY when you wish to resume recording.

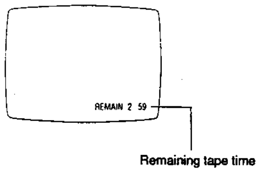


REMAINING TAPE TIME DISPLAY

To help you keep track of how much time is left on a tape, a remaining tape time function is available.

- To check the remaining tape time, press DISPLAY until "REMAIN" appears.
- The display panel shows "REMAIN – –:– –" during calculation of remaining tape time. After calculation, the approximate remaining tape time is shown for 5 seconds and then the display returns to "REC". The monitor screen also shows the remaining tape time. Press OSD to cancel the on-screen display.
- With some tapes, the remaining tape time may not be accurate.

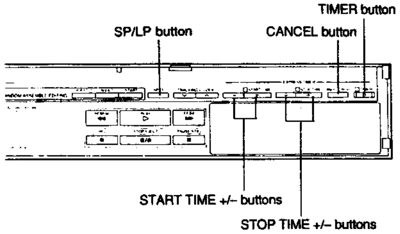




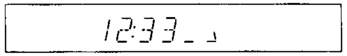
24-HOUR TIMER RECORDING (EXPRESS TIMER)

With "Express Timer", you can set the VCR to start and stop recording automatically at any time within the next 24 hours. Only one event can be programmed.

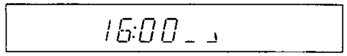
- Prepare connected components as necessary.
- Select input signal with VIDEO INPUT SEL.
- Set the recording speed as desired with SP/LP.

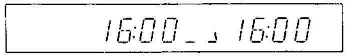


1. Load a cassette with safety tab in place.
2. Press START TIME + to enter the 24-hour timer set mode.
   - The current time appears on the display panel.
   - If the time does not appear, check that the clock has been set (☞ p.16).

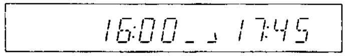


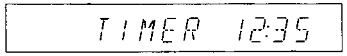
3. Press either START TIME +/– to set the start time.
   - START TIME + advances the time. START TIME – reverses the time.
   - Press briefly to change the time in 1-minute increments. Hold the button pressed to change the time in 30-minute increments.
   - After the start time is set, the display panel shows "TODAY" or "TOMORROW" for 3 seconds.
4. Press STOP TIME +.
   - The start time is transferred to the stop time position.





5. Press either STOP TIME +/– to set the stop time.
   - STOP TIME + advances the time. STOP TIME – reverses the time.
   - Press briefly to change the time in 1-minute increments. Hold the button pressed to change the time in 30-minute increments.
6. Press TIMER.
   - The VCR enters the Timer Standby mode.

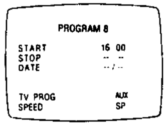




Timer Standby mode indicator

To check programmed data

- Press START TIME + while in the Timer Standby mode. Each time the button is pressed, the display panel changes from Start time → Stop time → Date → Video input → Tape speed → "TIMER".



PROGRAM 8
START 16 00
STOP -- --
DATE --/--
TV PROG AUX
SPEED SP

NOTE:

- Do not press START TIME + if the Timer Standby mode has been disengaged because this will clear the programmed data to make room for a new entry.
- Press CANCEL twice to cancel the program.
- If the VCR power is on, program data is also shown on the monitor screen.
- The external input mode cannot be programmed. The last-selected mode is automatically selected when the timer is activated.
- Do not press OPERATE during timer recording, as this turns off the VCR's power.

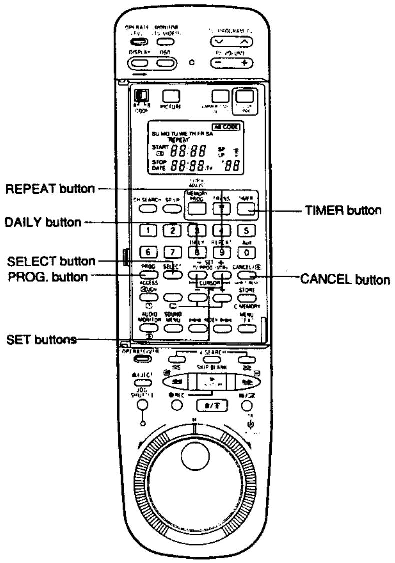
PROGRAMMABLE TIMER RECORDING

Unattended start and stop of recording is possible using the 1-year/8-event programmable timer. (Program 8 is used exclusively for "Express Timer".)

Two methods of timer programming are available:

- Local programming: Program the timer while referring to the on-screen display.
- Independent remote programming: Program the remote control's memory using the remote control's keys while referring to the LCD. Programmed data can then be transferred to the recorder.

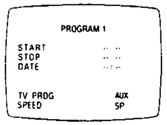
- Connect the VCR and monitor.
- Turn on both the VCR and monitor.
- Select the input mode with the VIDEO INPUT SEL switch.
- Make all necessary preparations for recording.


REPEAT button
DAILY button
SELECT button
PROG. button
SET buttons
TIMER button
CANCEL button

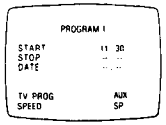
LOCAL PROGRAMMING

1. Load a cassette with safety tab in place.

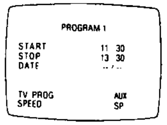
2. Press PROG.
   - The monitor screen changes to the Timer Set mode for program 1.
   - To advance to another program, press PROG. or SET to select a program number.


PROGRAM 1
START
STOP
DATE
TV PROG AUX
SPEED SP

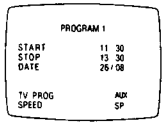
3. Press SELECT.
4. Enter the start time with SET and SELECT.
   - Select the item to be set with SELECT
   - Set the desired data with either SET – or +.

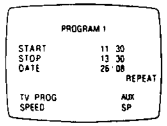

PROGRAM 1
START 11 30
STOP
DATE
TV PROG AUX
SPEED SP

5. Enter the stop time with SET and SELECT.

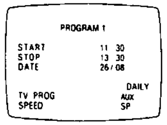

PROGRAM 1
START 11 30
STOP 13 30
DATE
TV PROG AUX
SPEED SP

6. Enter the date with SET and SELECT.
   - For weekly setting, press [9] REPEAT. Press it again to cancel.
   - For daily setting, press [8] DAILY. Press it again to cancel.
   - For daily setting starting on a certain day, press DAILY first and then enter the date.


PROGRAM 1
START 11 30
STOP 13 30
DATE 26/08
TV PROG AUX
SPEED SP


PROGRAM 1
START 11 30
STOP 13 30
DATE 26/08
REPEAT
TV PROG AUX
SPEED SP

Weekly setting


PROGRAM 1
START 11 30
STOP 13 30
DATE 26/08
DAILY
TV PROG AUX
SPEED SP

Daily seting

7. Press SELECT twice and press SP/LP to set recording speed.
8. Press SELECT to end programming.
   - The program number blinks.
   - If you need to set another program, press SET and repeat steps 3 through 7.
9. Press TIMER to enter the Timer Standby mode.
   - "TIMER" appears on the display panel.
   - If the tape ends during recording, the cassette is ejected and power turned off. "TIMER REC" and "TAPE END" will blink alternately on the display panel.
   - When you don't want to engage the Timer Standby mode immediately, do not press TIMER. Press DISPLAY to immediately cancel the program screen or wait for about 1 minute. If no buttons are pressed during this time, the program screen is automatically cleared. Timer data is retained and normal operations can be performed. When you're ready to engage Timer Standby, press TIMER.

Checking timer data

1. Press PROG.
   - Timer data for program 1 appears on the display panel.
2. Press SET to successively display timer data in order of program number.
3. Check the data.
   - To return to the Clock mode, press PROG.

Cancelling timer data

- Cancel the Timer Standby mode.

1. Press PROG.
   - Timer data for program 1 appears on the display panel.
2. Press PROG. or SET to select the program you wish to cancel.
3. Press CANCEL.
   - Programmed data is cleared from memory.

NOTE:

- Cancellation is also possible using the remote control and on-screen display. Press PROG. and check the program contents on the screen using SELECT and SET. Press CANCEL while an unnecessary program is on the screen.

NOTE:

- The external input mode cannot be programmed. The last-selected mode is automatically selected when the timer is activated.

Correcting timer data

After step 1:
2. Select the program number you wish to correct with SET.
3. Press SELECT to move to the item you want to correct and enter new data with SET.

PROGRAMMABLE TIMER RECORDING (Continued)

REMOTE PROGRAMMING

1. Load a cassette with safety tab in place.
2. Press MEMORY PROG.
   - The LCD is ready for timer programming.
3. Enter the date with the numeric keys.
   - For daily setting, press [8] (DAILY) and enter the start date. If recording is to take place the same day, press CURSOR without entering any date figure. Press [8] again to cancel.
   - For weekly setting, press [9] (REPEAT) and enter the start date. Press [9] again to cancel.
4. Enter the start time with the numeric keys.
   - Always key in two-digit numbers for the hours and minutes, eg. 09:05.
5. Enter the stop time with the numeric keys.

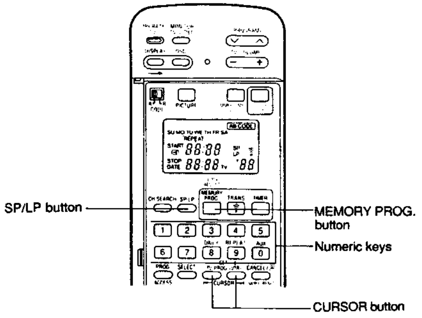
6. Press [0] (AUX).
   - The transfer-ready mark will appear and blink.
7. Select the recording speed with SP/LP.
8. Point the remote control at the VCR's Remote Sensor window and press TRANS.
   - "PROGRAM 1" (or the lowest available program number if program 1 has already been used) appears on the display panel indicating that the programmed data has been transferred to the VCR.
   - If all programs are full, "PROG FULL" appears on the display panel and transmission will not take place. In this case, press PRG. to select a program(s) for cancellation, and then press CANCEL to cancel it. After cancelling a program, press TRANS again to transfer data.
   - Press MEMORY PROG. to switch the LCD back to the clock mode.
9. Press TIMER to enter the Timer Standby mode.

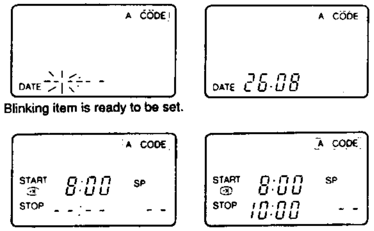
To make corrections

- During steps 3 — 6, press either CURSOR button until the position which requires correction blinks. Enter new data with numeric keys.

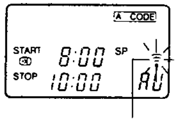
NOTES:

- If you need to use the VCR while it is in the Timer Standby mode, press TIMER and then OPERATE. After using the VCR, be sure to press TIMER to engage the Timer Standby mode.

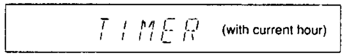




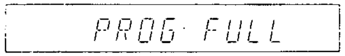
Blinking item is ready to be set.



Transfer-ready mark



Timer Standby mode indicator



"PROG FULL" indicator

- The external input mode cannot be programmed. Always be sure the VCR is set to the correct input mode before setting.
- Programmed data stored in the remote's LCD memory is retained even after it has been transferred to the recorder.
- Timer programming is not possible if the clock has not been set.
- The stop time must be set within 24 hours of the start time.
- Invalid date and time data will be rejected.

EDITING (Using SR-S360E As Recorder)

PREPARATIONS

1. Connect another deck (as a player) to the SR-S360E.
   - Connect VIDEO IN (or S VIDEO IN) to the other deck's VIDEO OUT (or S VIDEO OUT).
   - Connect AUDIO IN to the other deck's AUDIO OUT.
2. Select the input mode with the VIDEO INPUT SEL switch.
3. Press PICTURE to select "TAPE DUB" (☞ p.20).
4. Load a source tape in the player and a recording tape in the recorder.

NOTES:

- Front panel connections are also possible if the player is equipped with appropriate connectors.
- The front panel connectors share the same line input as the rear panel S VIDEO IN and AUDIO IN connectors. If connections are made to both the front and rear connectors, front panel connections have priority.
- With monaural players, use the AUDIO L (MONO) connector.

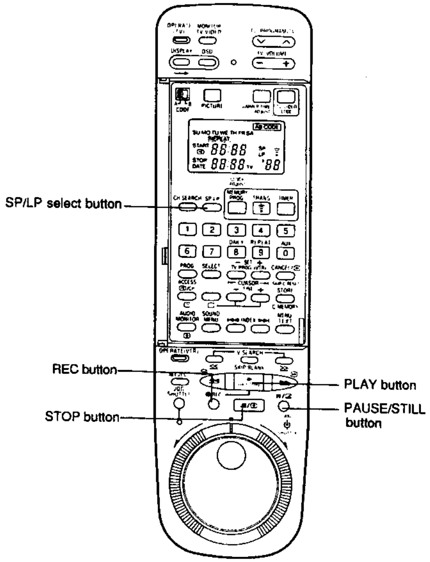
ASSEMBLE EDITING

Assemble editing adds one recorded scene to another in succession.

1. [Recorder]
   Set the recording speed with SP/LP.
2. [Recorder]
   Locate the edit-in point and press PAUSE/STILL while pressing REC to engage the Record-Pause mode.
3. [Player]
   Play back the source tape to search for the scene to be edited.
4. [Recorder]
   Press PLAY where you want to start editing.
5. [Recorder]
   To stop editing, press PAUSE.
6. Repeat steps 3 through 5 to continue assemble editing.
7. To end assemble editing, press STOP on both the recorder and player.

NOTE:

- In assemble editing, the picture may be distorted for a few seconds after the edit-out point. To insert a new recording into the pre-recorded portion, use insert editing as described on the next page.



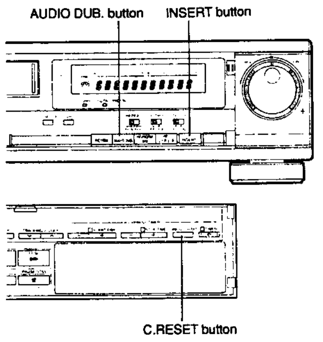
EDITING (Using SR-S360E As Recorder) (Continued)

INSERT EDITING

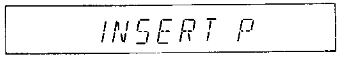
Insert editing replaces part of the recording with new material. Both video and Hi-Fi audio can be replaced while the normal audio remains unchanged or vice-versa.

- Make necessary preparations (☞ p. 30).

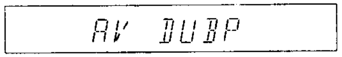
1. [Recorder]
   Play back the tape and determine the edit-out point using the Jog/Shuttle dial.
2. [Recorder]
   Press C.RESET.
   - The counter resets to zero.
3. [Recorder]
   Locate the edit-in point using the Jog/Shuttle dial and engage the Still mode.



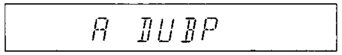
4. [Recorder]
   Press INSERT.
   - The recorder enters the Insert-Pause mode. ("INSERT P" appears on the display panel.)
   - The input signal picture replaces the still picture.



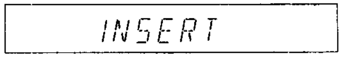
   - For simultaneous replacement of the normal audio soundtrack, press AUDIO DUB. ("AV DUB P" appears.)



   - If you press AUDIO DUB without pressing INSERT, only normal audio will be edited. ("A DUB P" appears.)



5. [Player]
   Play back the source tape.
6. [Recorder]
   Press PLAY where you want to start editing.
   - Insert editing starts. (The display panel changes to "INSERT", "AV DUB", or "A DUB" depending on the insert mode.)



7. [At counter 0:00:00]
   Insert editing will stop automatically.
   - The player will continue playback.
   - The recorder will switch to the Play mode.
   - If you wish to stop insert editing before the specified edit-out point, press C.RESET.

NOTES:

- Insert editing is not possible if the cassette's safety tab has been removed.
- Insert editing cannot be started from a non-recorded segment.
- In insert editing, the recording speed (SP/LP) is determined by the speed of the recording being replaced. If the previous recording's speed changes within a single edit, the inserted picture will be distorted at the switching point.

EDITING (Using SR-S360E As Player)

PREPARATIONS

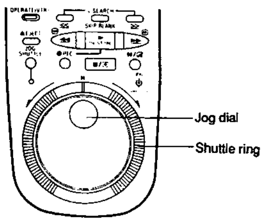
1. Connect another deck (as a recorder) to the SR-S360E.
   - Connect VIDEO OUT (or S VIDEO OUT) to the other deck's VIDEO IN (or S VIDEO IN).
   - Connect AUDIO OUT to the other deck's AUDIO IN.
   - (For Random Assemble Editing) Connect R.A.EDIT to the other deck's PAUSE.
2. Press PICTURE to select "TAPE DUB" (☞ p.20).
3. Set the recorder's input mode to "AUX".
4. Load a source tape in the player and a recording tape in the recorder.

NOTES:

- If you do not want to record on-screen messages on the edited tape, cancel the on-screen display (☞ p.35).

ASSEMBLE EDITING (BASIC)

1. [Recorder]
   Engage the Record-Pause mode.
2. [Player]
   Play back the source tape to locate the edit-in point.
   - Turn the Shuttle dial to quickly locate the desired point; releasing the dial engages the Still mode
   - Turn the Jog dial for more precise location of edit point.
3. [Player/Recorder]
   Press both the player's and recorder's PLAY button simultaneously.
4. [Recorder]
   To stop editing, press PAUSE.
5. Repeat steps 2 through 4 to continue assemble editing.
6. To end assemble editing, press STOP on both the recorder and player.

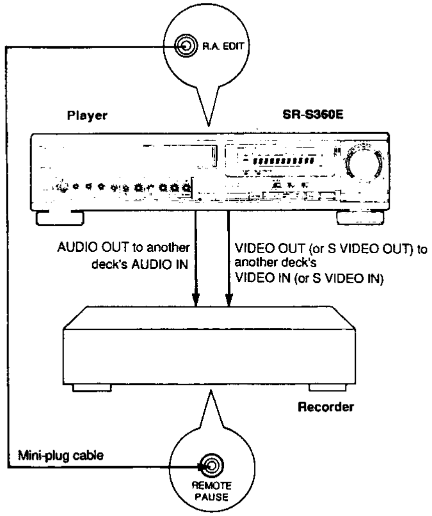


EDITING (Using SR-S360E As Player) (Continued)

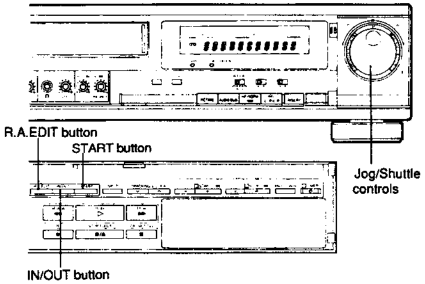
RANDOM ASSEMBLE EDITING

This function makes it easier to create edited videos when the SR-S360E is used as the source player in combination with another deck equipped with a PAUSE (or PAUSE IN) terminal. You can pre-program up to 8 scenes for automatic editing in the sequence you specify.

- Make necessary preparations (☞ p. 32).
- Connect the SR-S360E's R.A.EDIT to another deck's PAUSE (PAUSE IN) with mini-plug cable.

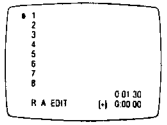


R.A. EDIT
Player
SR-S360E
AUDIO OUT to another deck's AUDIO IN
VIDEO OUT (or S VIDEO OUT) to another deck's VIDEO IN (or S VIDEO IN)
Recorder
Mini-plug cable
REMOTE PAUSE



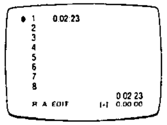
R.A.EDIT button
START button
Jog/Shuttle controls
IN/OUT button

1. [Player]
   Play back the source tape.
2. [Player]
   Press R.A.EDIT.
   - On-screen display is superimposed on the video playback picture.



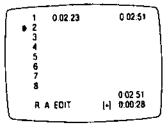
● 1
2
3
4
5
6
7
8
0 01 30
R A EDIT
(+) 0:00 00

3. [Player]
   Locate the edit-in point using the Jog/Shuttle dial and press IN/OUT.
   - *The edit-in point is registered.*



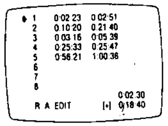
● 1 0.02:23
2
3
4
5
6
7
8
0 02 23
R A EDIT
(+) 0.00 00

4. [Player]
   Locate the edit-out point using the Jog/Shuttle dial and press IN/OUT.
   - The edit-out point is registered.
   - Duration of registered segment appears in "+" area on the screen.

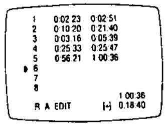


1 0.02.23 0 02:51
● 2
3
4
5
6
7
8
0:02 51
R A EDIT
[+] 0:00:28

5. [Player]
   Enter edit point data for additional scenes by repeating steps 3 and 4. (Up to 8 scenes can be entered.)
6. [Recorder]
   Engage the Record-Pause mode.
7. [Player]
   Press START.
   - Automatic editing starts. All the specified scenes are recorded by the recorder in sequential order.
   - The on-screen display is superimposed each time the player searches for a scene and goes off during editing. The blinking cursor points to the edit number currently being searched.
   - While the player is searching for a scene, the recorder automatically enters the Record-Pause mode.
   - When random assemble editing is finished, the player enters the Still mode, and the recorder enters the Record-Pause mode. The cursor on the display blinks at the next available edit number.
8. To end random assemble editing, press STOP on both the recorder and player.
9. Press R.A.EDIT to clear the on-screen display.



● 1 0:02 23 0 02:51
2 0.10:20 0.21 40
3 0 03 16 0:05 39
4 0:25:33 0:25:47
5 0:56.21 1:00:36
6
7
8
0:02.30
R A EDIT
[+] 0:18:40

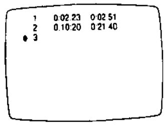


1 0:02 23 0:02:51
2 0:10:20 0:21:40
3 0:03.16 0:05:39
4 0:25:33 0:25:47
5 0:56.21 1:00:36
● 6
7
8
1:00:36
R A EDIT
[+] 0.18:40

To make corrections

During steps 3 or 4, you can correct edit-in and -out points using the remote control. Each time the CANCEL button is pressed, the immediately preceding point is cleared and can be reset.

Example: Here, the edit-out point for "2" can be reset by pressing CANCEL once. By pressing CANCEL repeatedly, you can back up to previous points to reset, but all points in between will be cleared in the process. (eg. When you back up to the edit-out point for "1", the edit-in and -out points for "2" will be cleared.)



1 0:02:23 0:02:51
2 0:10:20 0:21:40
● 3

NOTES:

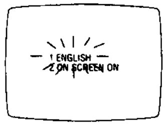
- There may be a discrepancy of about 2 seconds at edit points.
- The edit-out point must be set at least 1 second after the edit-in point.
- Since the player prerolls during Random Assemble Editing, there must be a recorded section of at least 15 seconds before the edit-in point.
- If the search time for a edit-in point exceeds 5 minutes, the recorder's Record-Pause mode is cancelled automatically and editing does not take place.

CUSTOMISING

ON-SCREEN SET UP

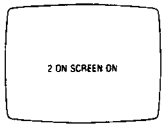
Language Selection
The preset on-screen language is English. You can change this to any one of ten languages.

1. Press OSD for more than 2 seconds.
   - The on-screen setup menu appears with "ENGLISH" blinking.
2. Press either SET + or – until you reach the desired language.
   - Available languages are ENGLISH, DEUTSCH, FRANCAIS, ITALIANO, ESPANOL, NEDERLANDS, SVENSKA, NORSK, SUOMI, and DANSK.
3. To set the language of your choice, press OSD while that language is blinking.
   - All on-screen messages will be displayed in the selected language.



On-Screen Mode Display On/Off
To set the VCR to display or not display VCR mode indications on the screen.

(After step 1 above)
2. Press SELECT.
3. Press either SET button to choose ON or OFF. The selected status will blink.
4. Press OSD to set the selected status.
   - Even if you set the OSD to OFF, "PAUSE" will always be displayed whenever the Record-Pause mode is engaged.



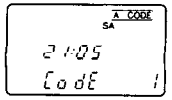
NOTE:
- On-screen display is available only when a video signal is input to the recorder or when playing back a tape. When engaging the settings above, input a video signal or play back a tape.

REMOTE CONTROL SETTING

TV Code Setting
This remote control can operate the basic functions of JVC TV sets, as well as TVs produced by other manufacturers.
1. Press TV/VIDEO CODE for more than 2 seconds.
   - The current code is displayed on the LCD.
2. Press the numeric keys corresponding to the code number for your TV brand (see right).
   - The display switches back to clock mode after 2 seconds.

NOTES:
- TV code setting is not possible if the clock has not been set.
- Whenever you replace the batteries in the remote control, it is necessary to reset the TV code unless you are using a Code 1 JVC TV.

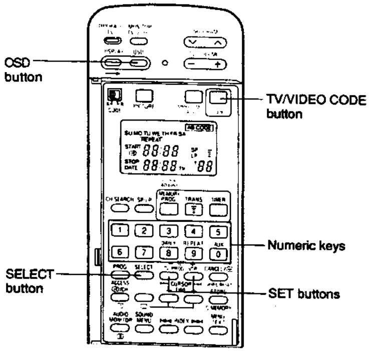
TV BRAND NAME	CODE
JVC	1
JVC	2
BRANDT NORDMENDE SABA TELEAVIA TELEFUNKEN THOMSON	3
FERGUSON	4
PHILIPS	5
BLAUPUNKT GRUNDIG	6
SONY	7
PANASONIC	8
PANASONIC	9
GRAETZ ITT LUXOR SALORA SELECO	0

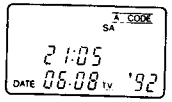


To control TV
- Press OPERATE (TV) to turn the TV power on.
- Press MONITOR (TV/VIDEO) to switch the TV between TV and VIDEO (AV) mode.
- Press TV PROGRAM (TV) to select channels on the TV.
- Press TV VOLUME to adjust the TV's sound volume.
- The numeric keys can also be used to select channels on the TV.
  1. Press TV/VIDEO CODE.
     "TV" appears on the LCD.
  2. Use the numeric keys and +/– to select the TV channel while "TV" is on the LCD.
     - With televisions using Code 1, 4, 5, 7, 8 or 9, both the +/– buttons correspond to the 1-digit/2-digit entry switching button (often labelled –/– –) of your TV's remote control.
     - With televisions using Code 2, 6 or 0, the – button corresponds to the 10+ button, and the + button corresponds to the 20+ button of your TV's remote control.

     (The way these buttons are used is determined by your TV. Use buttons as instructed for your TV's remote control.)

NOTES:
- The TV PROGRAM (TV) button does not function with televisions using Code 3.
- The MONITOR (TV/VIDEO) button does not function with televisions using Code 4.
- With some televisions, the OPERATE (TV) button functions only to turn the TV power off, and the MONITOR (TV/VIDEO) button functions only to switch the TV to VIDEO (AV) mode.



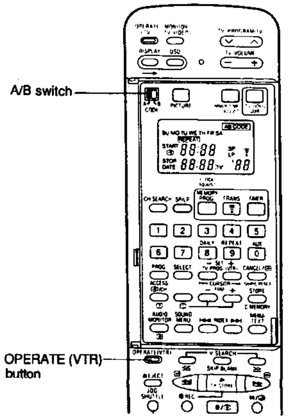


IMPORTANT
Though the remote control is compatible with JVC TVs as well as many TV sets manufactured by other companies, it may not function with some models or may have limited function capability.

A/B Code Switching
This VCR is initially set to respond to "A" code signals. Normally leave the remote control's A/B switch set to "A". However if you own two JVC VCRs and want to prevent them from responding simultaneously to a single remote control, you can set this VCR to "A" or "B" as required. To operate the desired VCR, simply set the remote control's A/B switch as required.

1. Unplug the VCR's power cord.
   - VCR's code memory is cleared.
2. Set the A/B switch to "B".
   - "B CODE" appears on the LCD.
3. Plug the VCR in again.
4. Press the remote control's OPERATE (VTR) button.
   - The VCR turns on. From now on it will respond only to "B" code signals.

NOTES:
- Some televisions may not function properly when the B mode is used. In this case, switch back to the A mode.



MESSAGES

DISPLAY PANEL MESSAGES

Messages not appearing elsewhere in this manual are listed here. More common messages are all described in the relevant sections.

MESSAGES	CONTENTS
During clock setting	
25/12 10:30	"25th December, 10:30" has been successfully transferred.
During normal operation	
SPEED SP	Tape speed has been changed from LP to SP. Displayed for 5 seconds.
SPEED LP	Tape speed has been changed from SP to LP. Displayed for 5 seconds.
AUDIO DUB	Audio dubbing is in progress.
A DUB P	Audio dubbing is paused.
INSERT	Insert editing is in progress.
INSERT P	Insert editing is paused.
AV DUB	AV dubbing (combined use of insert editing and audio dubbing) is in progress.
AV DUB P	AV dubbing is paused.
AUX INPUT	VIDEO IN has been selected for external input.
S-INPUT	S-VIDEO IN has been selected for external input.
FRONT AV	Video/Audio signals via front panel connectors have been selected.
FRONT (S)	S-Video/Audio signals via front panel connectors have been selected.
REC SP AUX	Recording via AUDIO/VIDEO IN in the SP mode.
REC SP (S)	Recording via S-VIDEO/AUDIO IN in the SP mode.
PAUSE AUX	Recording is paused during REC SP AUX.
PAUSE (S)	Recording is paused during REC SP (S)
SKIP	Skip search is engaged. Displayed for 5 seconds.
BLANK	Blank search is engaged. Changes to REMAIN after 5 seconds.
INDEX +9	Searching for the 9th index code in the forward direction.
INDEX –4	Searching for the 4th index code in the reverse direction.
INDEX MARK	Index code is being marked.
REPEAT	Appears during rewind for Repeat Playback.
During Next Function Memory	
REW – OFF OFF	Will rewind and then shut off.
REW – PLAY PLAY	Will rewind and then start playback.
REW – TIMER TIMER	Will rewind and then enter the Timer Standby mode.
REW – EJECT EJECT	Will rewind and then eject the cassette.
Clock and counter display	
4:30:15	Tape counter reading of "4 hours, 30 minutes, 15 seconds".
25/12 10:30	It is 25th December, 10:30.
M 4:30:15	Counter memory function has been set (☞ p.22).

MESSAGES	CONTENTS
Others	
TIMER (with number)	The VCR is in the Timer Standby mode.
TIMER REC	Timer recording is in progress.
PROGRAM (with number)	The transferred data has been stored in that program number. (The lowest available number is always selected automatically.) Displayed for 5 seconds.
GOOD MORNING	Automatic greetings when the recorder is turned on.
GOOD AFTERNOON	
GOOD EVENING	
GOOD-BYE	Automatic greetings when the recorder is turned off.
GOOD-NIGHT	

ERROR MESSAGES

The following messages may appear when TIMER is pressed to engage Timer Standby mode. These messages are displayed for 5 seconds and the Timer Standby mode is cancelled.

MESSAGES	REMARKS
NO CASS	No cassette is loaded in the recorder. — Load a cassette. Press TIMER again.
NO REC TAB	Loaded cassette has no safety tab. — Load a cassette with its safety tab in place. Or cover the safety tab hole with adhesive tape and re-insert. Press TIMER again.
NO PROGRAM	No preset programs are stored in memory. — Re-enter the program data. Press TIMER again.

The following messages may appear during timer recording.

MESSAGES	REMARKS
TAPE END	The end of the tape was reached during timer recording if this and "TIMER REC" are alternately displayed. The preset program may not be recorded in its entirety.
SET CLOCK	Time-keeping has stopped due to power failure or because the VCR was unplugged during timer recording. — Set the clock again.

The following messages may appear when the TRANS button is pressed. These messages are displayed for 5 seconds.

MESSAGES	REMARKS
TRANS ERR	Data was not successfully transferred. The program may have been set incorrectly, or the VCR's clock has not been set. — Check the LCD program, and re-program as necessary. Transfer again.
PROG FULL	VCR's program memory is full. — Cancel unnecessary programs, and transfer again.

TROUBLESHOOTING GUIDE

POWER AND TAPE TRANSPORT PROBLEMS

Symptoms	Check points
Power is not applied to the recorder.	● Is the power cord connected? — If not, connect it.
Clock is functioning normally, but the VCR cannot be turned on.	● Is "TIMER" displayed on the display panel? — Press the TIMER button to cancel the Timer Standby mode.
Tape does not run during recording.	● Has the PAUSE/STILL button been pressed? — Press PLAY to cancel Record-Pause.
Tape stops during rewind or fast-forward.	● Has the C.MEMORY button been pressed? — Press again to make "M" disappear from the counter display.
Tape will not rewind or fast forward.	Is the tape already fully rewound or fast forwarded?

RECORDING PROBLEMS

Symptoms	Check points
Recording will not start.	● Is the cassette loaded? ● Has the cassette's safety tab been removed? — Reseal the slot with adhesive tape.
Timer recording is not possible.	● Have you set the clock and programmed the timer correctly? — Check again. ● Is "TIMER" displayed on the display panel? — If not, press the TIMER button to display "TIMER".

PLAYBACK PROBLEMS

Symptoms	Check points
Noise appears during search.	● This is normal.
Noise appears during normal/slow-motion playback.	● Refer to "TRACKING CONTROL". (☞ p.19).
Noise appears during still playback.	● Refer to "V.LOCK ADJUSTMENT" (☞ p.19).
Playback picture is blurred or interrupted.	● Video heads may be dirty. — Head cleaning is necessary. Use a head cleaning cassette. If problem persists, consult your JVC dealer.

HI-FI AUDIO PROBLEMS

Symptoms	Check points
Breaks are noticeable in Hi-Fi audio reproduction.	● Is the automatic tracking mode engaged? — Try manual tracking. (☞ p.19)
Hi-Fi soundtrack cannot be reproduced.	● Is "AUDIO MONITOR" on the FUNCTION menu set to "NORM"? — Set it to "Hi-Fi" (☞ p.20).

OTHERS

Symptoms	Check points
Remote control's clock cannot be transferred to the recorder.	● Is "TIMER" displayed on the display panel? — Press the TIMER button to cancel the Timer Standby mode.
Remote control does not function.	● Are the batteries depleted? — Replace with new ones. ● Is the A/B switch set correctly? — Set it to the correct position (☞ p.36).
Remote control's time display changed to "0:00" and is blinking.	● Remote control's batteries are exhausted. — Replace the batteries and set the clock again.
No buttons are functioning.	● Has the MODE LOCK switch been set to "ON" — Set it to "OFF"

ATTENTION
This recorder contains microcomputers. External electronic noise or interference could cause malfunctioning. If this happens, turn the power off and unplug the power cord. Wait about 20 minutes, then plug the cord back in and turn on the recorder. Remove the cassette. After checking the cassette, operate the unit as usual.

Head Cleaning
Accumulation of dirt and other particles on the video heads may cause blurring or interruption of the playback picture. To reduce the likelihood of dirty heads, this model is equipped with a built-in head cleaner which automatically cleans the heads. If you have any trouble, consult your local JVC service agent.

Auto Head Cleaner
A built-in head cleaner automatically cleans the video heads and head drum whenever a tape is loaded or unloaded to reduce head clogging.

SPECIFICATIONS

GENERAL

Power requirement	AC 220 – 240 V, 50/60 Hz
Power consumption	21 W
Temperature	
Operating	5°C to 40°C
Storage	–20°C to 60°C
Humidity	
Operating	35% to 80%
Storage	5% to 80%
Operating position	Horizontal only
Dimensions (WxHxD)	435 x 105 x 395 mm
Weight	6.7 kg
Format	VHS/S-VHS PAL standard
Tape width	12.65 mm
Tape speed	
(SP)	23.39 mm/sec
(LP)	11.70 mm/sec
Maximum recording time	
(SP)	240 min. with E-240 video cassette
(LP)	480 min. with E-240 video cassette

VIDEO

Signal system	PAL-type colour signal/PAL-type Y/C signal
Recording system	Rotary two-head helical scan system
Luminance	FM recording
Colour	Down-converted direct recording
Input	
Line	0.5 to 2.0 Vp-p, 75 ohms, unbalanced
Output	
Line	1.0 Vp-p, 75 ohms, unbalanced
Signal-to-noise ratio	43 dB (Rohde & Schwartz noise meter)
Horizontal resolution	400 lines (S-VHS) 240 lines (VHS)

AUDIO

Recording system	2 Hi-Fi tracks/Monaural longitudinal track
Input	
Line	–8 dBs, more than 50 k-ohms, unbalanced
MIC	–67 dBs, high impedance, unbalanced
Output	
Line	–6 dBs, less than 1 k-ohm, unbalanced (100 k-ohms, load)
Phones	8 ohms to 1 k-ohm, unbalanced
Frequency response	70 Hz to 10,000 Hz (Normal) 20 Hz to 20,000 Hz (Hi-Fi)
Wow and flutter	Less than 0.005% WRMS (Hi-Fi)

TIMER

Clock reference	Quartz-crystal
Program capacity	1-year programmable timer/8 programs
Memory backup time	Min. 3 minutes

ACCESSORIES

Provided accessories	S-Video cable (4-pin), Infrared remote control unit, "R6/AA/UM-3" battery X 2
Optional accessory	Wired remote control RM-G30U

Specifications shown are in SP mode unless otherwise specified.
Design and specifications subject to change without notice.

SECTION 1
DISASSEMBLY AND MECHANISM ADJUSTMENT

1.1 DISASSEMBLY

1.1.1 Top cover

1. Take out 4 screws Ⓐ.
2. To remove the top cover, slide in direction of arrow and lift away.

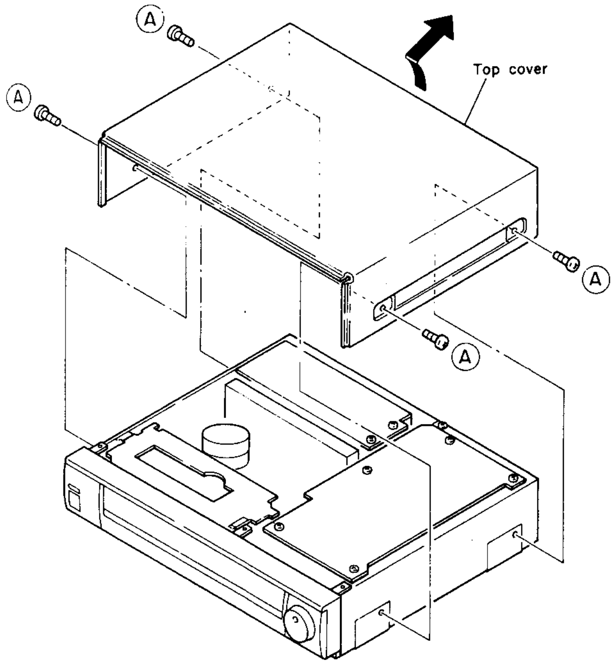


Fig. 1-1-1 Top cover

1.1.2 Front panel assembly

1. Remove the top cover.
2. Take out 1 screw Ⓙ.
3. Carefully disengage 3 tabs ⓐ of the front panel assembly from the upper side of chassis.
4. Pull the front panel assembly forward you to disengage 3 tabs ⓑ of the front panel assembly from the bottom of the chassis.

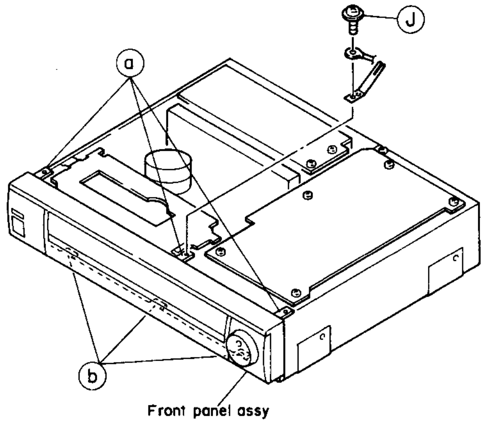

Ⓙ
ⓐ
ⓑ
Front panel assy

Fig. 1-1-2 Front panel assembly -1

4. Take out 13 screws Ⓑ, and disconnect connector ⓒ from the Display board assembly.

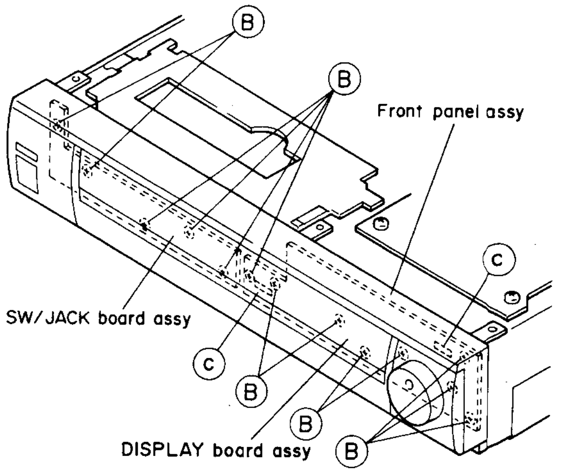

Ⓑ
Ⓑ
Front panel assy
ⓒ
SW/JACK board assy
ⓒ
Ⓑ
Ⓑ
DISPLAY board assy
Ⓑ

Fig. 1-1-3 Front panel assembly -2

1.1.3 Bottom cover

1. Remove the top cover.
2. Take out 6 screws Ⓒ and 4 screws Ⓓ.

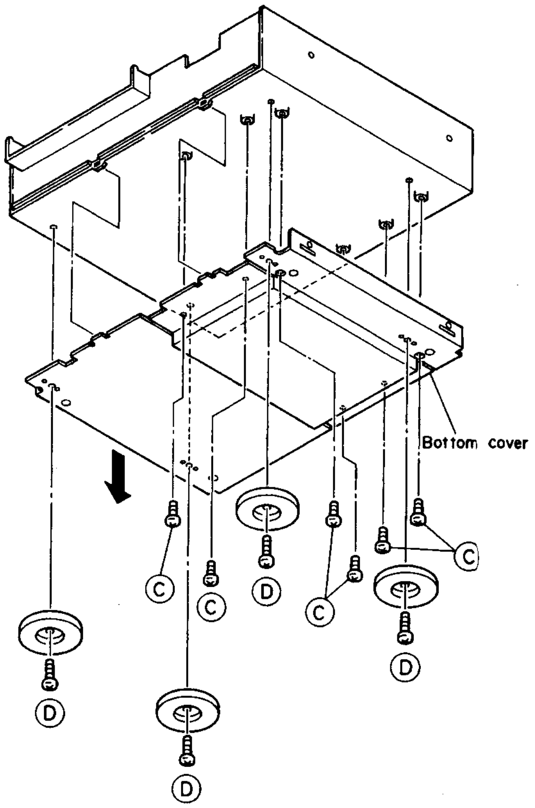
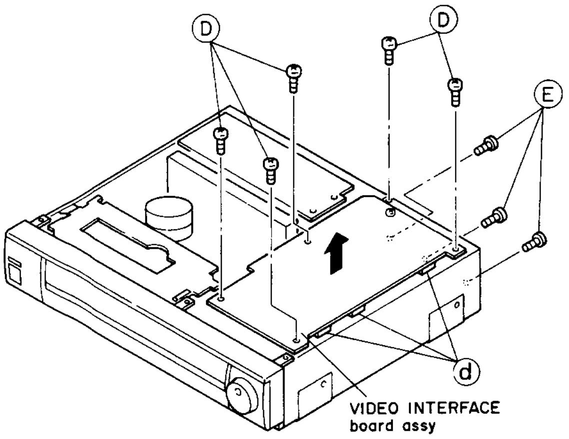

Bottom cover
Ⓒ
Ⓒ
Ⓒ
Ⓓ
Ⓒ
Ⓓ
Ⓓ
Ⓓ

Fig. 1-1-4 Bottom cover

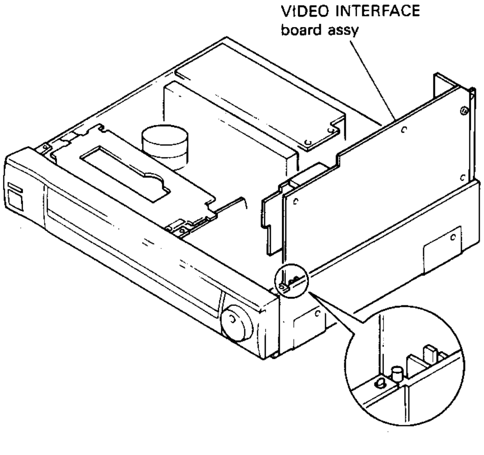
1.1.4 Video interface board assembly

1. Remove the top cover.
2. Take out 5 screws Ⓓ and 3 screws Ⓔ.
3. Disconnect 3 connectors ⓓ.
4. Remove the main board assembly in the direction of arrow.



D
D
E
d
VIDEO INTERFACE
board assy

Fig. 1-1-5 VIDEO INTERFACE board assembly

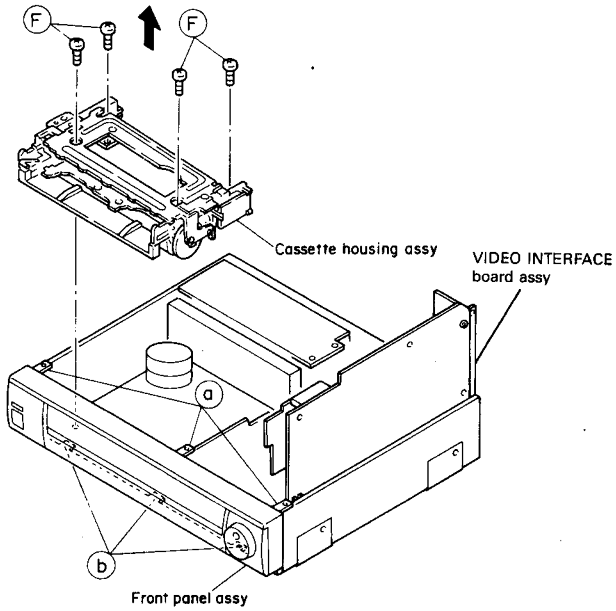


VIDEO INTERFACE
board assy

Fig. 1-1-6 Service portion

1.1.5 Cassette housing assembly

1. Remove the top cover and VIDEO INTERFACE board assembly.
2. Carefully disengage 3 tabs ⓐ of the front panel assembly from the upper side of the chassis.
3. Pull the front panel assembly forward you to disengage 3 tabs ⓑ of the front panel assembly from the bottom of the chassis.
4. Take out 4 screws Ⓕ.
5. Remove the cassette housing assembly in direction of arrow.



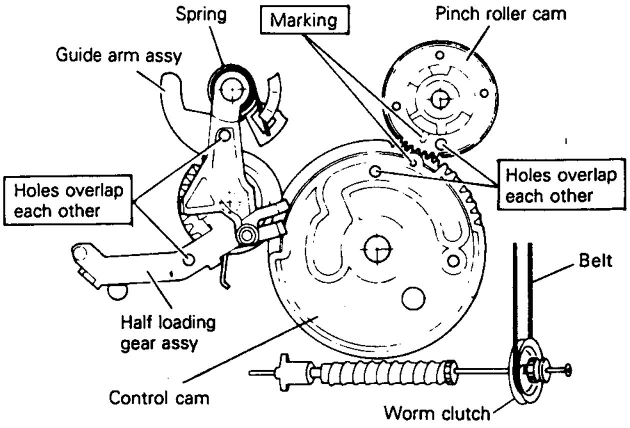
F
F
Cassette housing assy
VIDEO INTERFACE
board assy
a
b
Front panel assy

Fig. 1-1-7 Cassette housing assembly

1.1.6 Cassette housing installation

Note: ***Observe the mechanical phase and position (see figure) when installing the cassette housing assembly. If these are incorrect, the system will not operate properly even when tape is inserted.***

1. Check that the marks of the control cam and pinch roller cam are aligned. If necessary, turn the worm clutch by hand to adjust the position.



Spring
Marking
Pinch roller cam
Guide arm assy
Holes overlap
each other
Holes overlap
each other
Belt
Half loading
gear assy
Control cam
Worm clutch

Fig. 1-1-8 Control cam and pinch roller cam position

2. Confirm that the clutch of the worm clutch assembly is locked. If necessary, engage the lock.

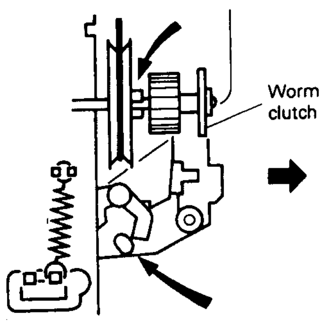

Worm
clutch

Fig. 1-1-9(a) Not locked

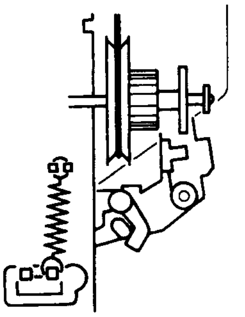


Fig. 1-1-9(b) Lock engaged

3. Install the front panel as shown in Fig. 1-1-10 and reengage the tabs. Supply power and use a spare cassette to check for normal loading and eject operations

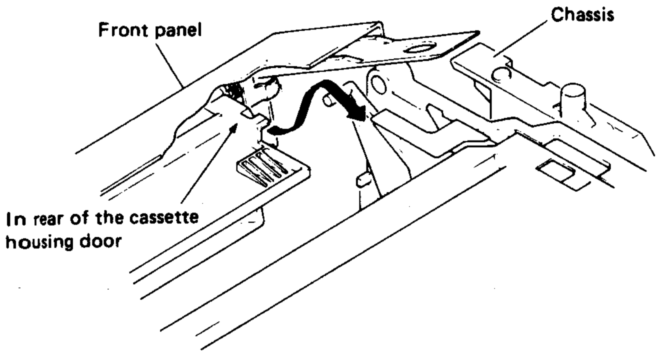

Front panel
Chassis
In rear of the cassette
housing door

Fig. 1-1-10 Cassette housing door

1.1.7 Switching regulator assembly

1. Remove the top cover and main board assembly.
2. Take out 4 screws Ⓓ.
3. Disconnect 7 connectors ⓓ from the switching regulator board assembly.
4. Remove the switching regulator board assembly in direction of arrow.

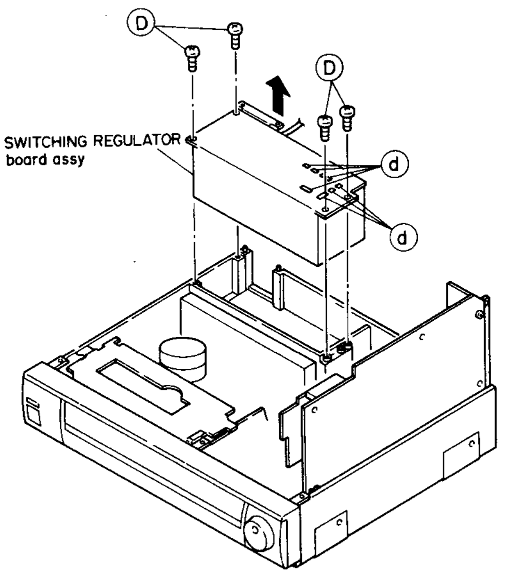

Ⓓ
Ⓓ
SWITCHING REGULATOR
board assy
ⓓ
ⓓ

Fig. 1-1-11 Switching regulator assembly

1.1.8 Rec amp board assembly

1. Remove the top cover and VIDEO INTERFACE board assembly.
2. Disconnect 6 connectors ⓔ from the Rec amp board assembly.
3. Take out 2 screws Ⓖ and remove the Rec amp board assembly in direction of arrow.

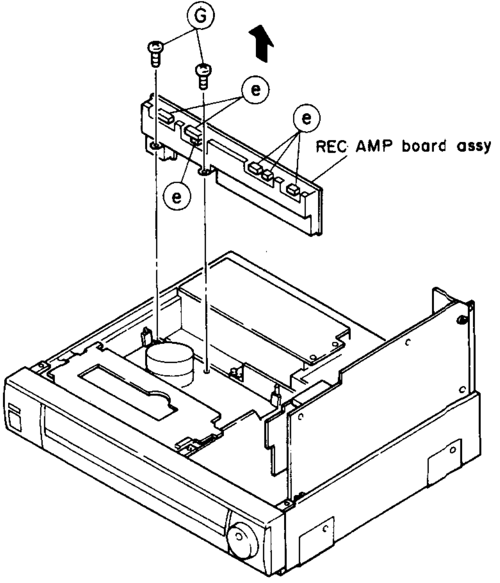

Ⓖ
ⓔ
ⓔ
REC AMP board assy
ⓔ

Fig. 1-1-12 Rec amp board assembly

1.1.9 Main deck assembly

1. Remove the top cover, front panel, VIDEO INTERFACE board assembly and cassette housing assembly.
2. Take out 3 screw Ⓗ and disengage 2 claws ⓕ from the chassis.
3. Remove the main deck assembly in direction of arrow.

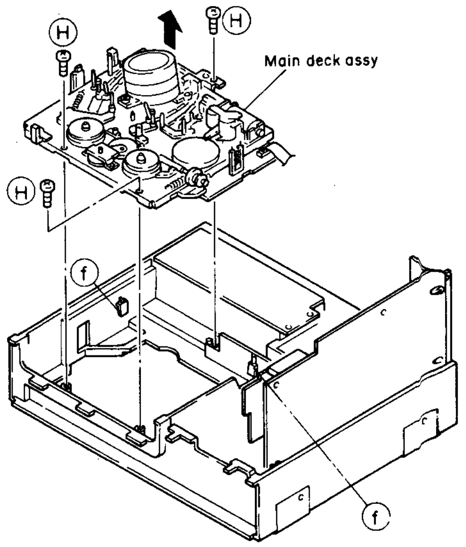

Ⓗ
Ⓗ
Main deck assy
Ⓗ
ⓕ
ⓕ

Fig. 1-1-13 Main deck assembly

1.2 MECHANISM ADJUSTMENTS

1.2.1 Precautions

1. Disconnect VCR from AC power before soldering.
2. Avoid imparting stress to wires when disengaging connectors.
3. Determine and correct the cause of difficulty before proceeding to adjustments. Do not disturb settings unnecessarily.
4. Use care not to damage tabs, claws, etc. during repairs.
5. Install the cassette housing assembly only when the mechanism is in the Eject or Stop mode position. In the Eject mode, the internal holder of the housing is fully raised. This is fully lowered in the Stop mode.
6. When installing the front panel assembly, be sure to engage the housing door with the door lever of the cassette housing assembly. If this is omitted, the door will not open at Eject and the cassette cannot be removed. (Ref. Fig 1-1-10)

1.2.2 Check without cassette housing

Mechanism operations can be observed easily by removing the cassette housing assembly. Note the following.

1. Disable the photo transistor sensor (END SENSOR) on the main-deck by applying an opaque cover.
2. Connect pins 2 and 3 of A/S/M board connector CN601.
3. Select the desired modes with the operation buttons. However, notice that without tape, setting for the reverse direction modes produces the Stop mode after a few seconds due to absence of the reel sensor output.

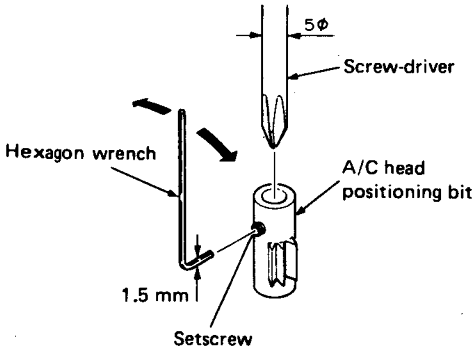


Fig. 1-2-1 A/C head positioning tool

1.2.3 Manually removing cassette tape

In event of electrical system failure that prevents the tape from being unloaded, the tape can be removed manually by the following procedure. Refer to Figs. 1-3-1, 1-3-2 and 1-3-3.

1. Disconnect power cord from AC outlet.
2. Turn the loading motor by hand so that the control cam rotates clockwise. This retracts the pole base assembly to the unloading position.
3. Continue turning to where the guide arm and half loading gear assemblies shift to beneath the cassette.
4. Turn the clutch assembly at the bottom of the deck to absorb slack tape within the cassette.
5. Again turn the loading motor in the same direction to raise the cassette and remove it.

1.2.4 Test equipment

The following special tools and fixtures are required for mechanism adjustment.

1. Alignment tapes : MHPE, MHPE-L, MBPE-X
   Stairstep signal is employed for interchangeability checks and adjustments.
2. Torque gauge : PUJ48075-2
   Measures tape take-up torque.
3. Back tension cassette gauge : PUJ42881
   Measures tape tension at the supply side.
4. A/C head positioning bit : PTU94010
   - Shifts the head base for adjusting the control head position.
   - **The installation of a A/C head positioning bit on the screw-driver.**
     Refer to Fig. 1-2-1. Set screw-driver into the A/C head positioning bit where it does not interfere with adjusting the A/C head adjusting boss (position the screw-driver point 6 ± 2 mm from point of the A/C head positioning bit). Slightly tighten the setscrew by hexagon-wrench (1.5 mm).
5. Roller driver : PTU94002
   Turns the guide roller for adjusting FM linearity.
6. Presetting unit: PGJ05050
   Use for LP auto tracking preset adjustment.

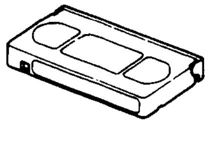
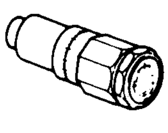
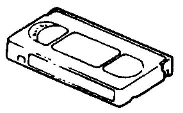
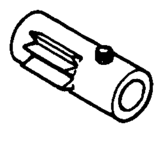
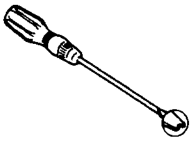
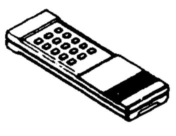
1 Alignment tapes	2 Torque gauge	3 Back tension cassette gauge	4 A/C head positioning bit	5 Roller driver	6 Presetting unit
MHPE, MHPE-L MBPE-X 	PUJ48075-2 	PUJ42881 	PTU94010 	PTU94002 	PGJ05050 

Fig. 1-2-2 Test equipment

1.2.5 Using the SR-S360E Presetting Unit

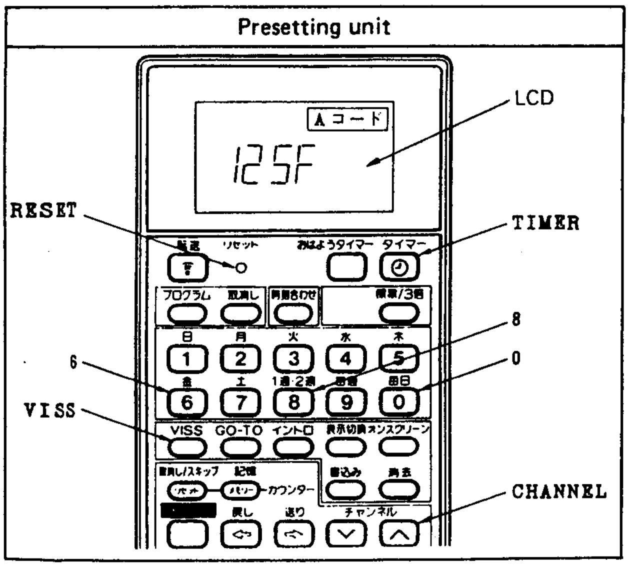
Some adjustment to the SR-S360E must be made with the presetting unit (remote control in adjusting mode). Part number PGJ05050

Instructions for using the Presetting Unit

- **JIG MODE**

1. To use the presetting unit (JIG mode), you must set it to adjusting mode.
   Press and hold down the [TIMER], [6], and [8] buttons.
   At the same time, press the RESET button with a pointed object.
2. Check that you have successfully changed the remote control operating mode to adjusting mode by reading the A code in the LCD.
   It should read [125F].
3. Connect the RCA pin of the remote output to remote input.
4. You can still use basic functions like play, stop, FF, and REW.

Presetting unit



Note: This presetting unit is Japanese expression.

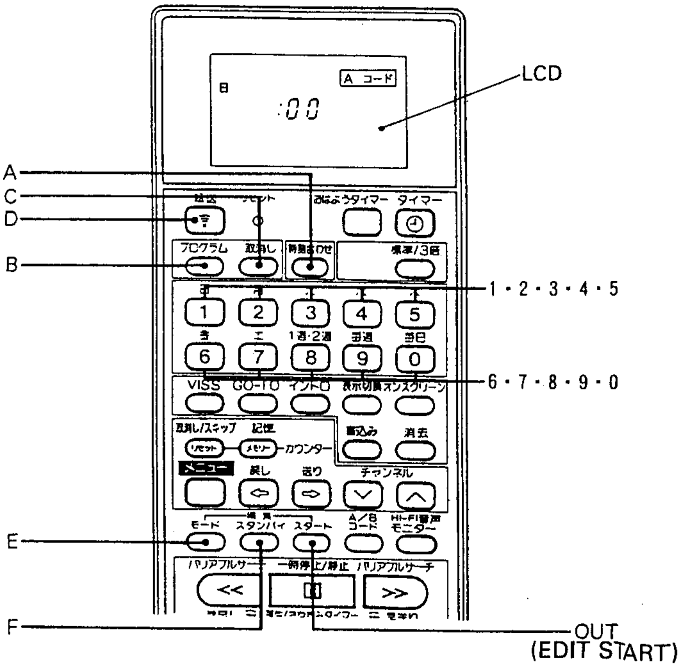
- **JVC MULTI MODE**

1. To use the presetting unit (JVC multi mode), you must set it to adjusting mode.
   Press and hold down the [TIMER], [7], and [8] buttons.
   At the same time, press the RESET button with a pointed object.
2. When [:00] (code A) is displayed in the LCD of the preset unit, the preset unit is set in the JVC multi mode replacing the normal remote control mode.
3. Connect the RCA pin of the remote output to remote input.
4. Input an optional JVC code with the numeral key or the function key, the code is displayed in the LCD (some of codes are not displayed).
   Then, press the EDIT START (OUT) button (can be found in the center part) for transmission output.

KEY NAME	1	2	3	4	5	6	7	8	9	時刻合わせ	プログラム
LCD DISPLAY	1	2	3	4	5	6	7	8	9	A	U
OUTPUT CODE	1	2	3	4	5	6	7	8	9	A	B

KEY NAME	取消し	転送	編集モード	編集スタンバイ	編集スタート
LCD DISPLAY	C	D	NO DISPLAY	– (BAR)	📶
OUTPUT CODE	C	D	E	F	Signal Out

The above table shows the relation between indications of the LCD and the output codes when input is performed by key operation in the JVC multi mode.



1.3 MAIN MECHANISM PARTS

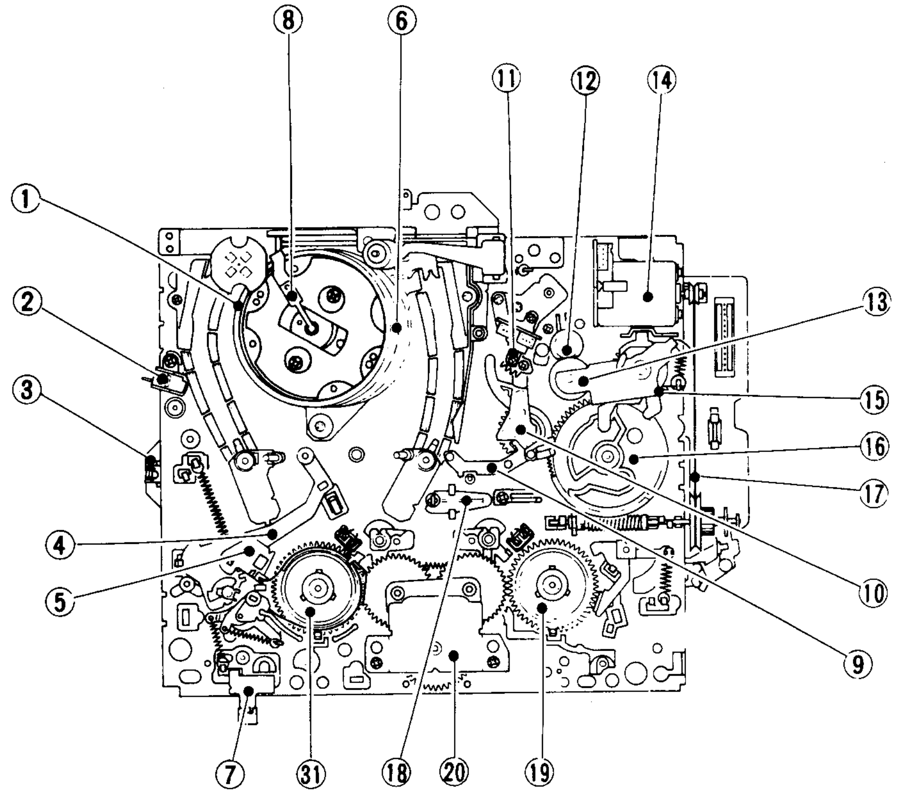

⑧
⑥
⑪
⑫
⑭
①
②
③
⑬
⑮
⑯
⑰
④
⑤
⑩
⑨
⑦
㉛
⑱
⑳
⑲

Fig. 1-3-1 Top view of main-deck

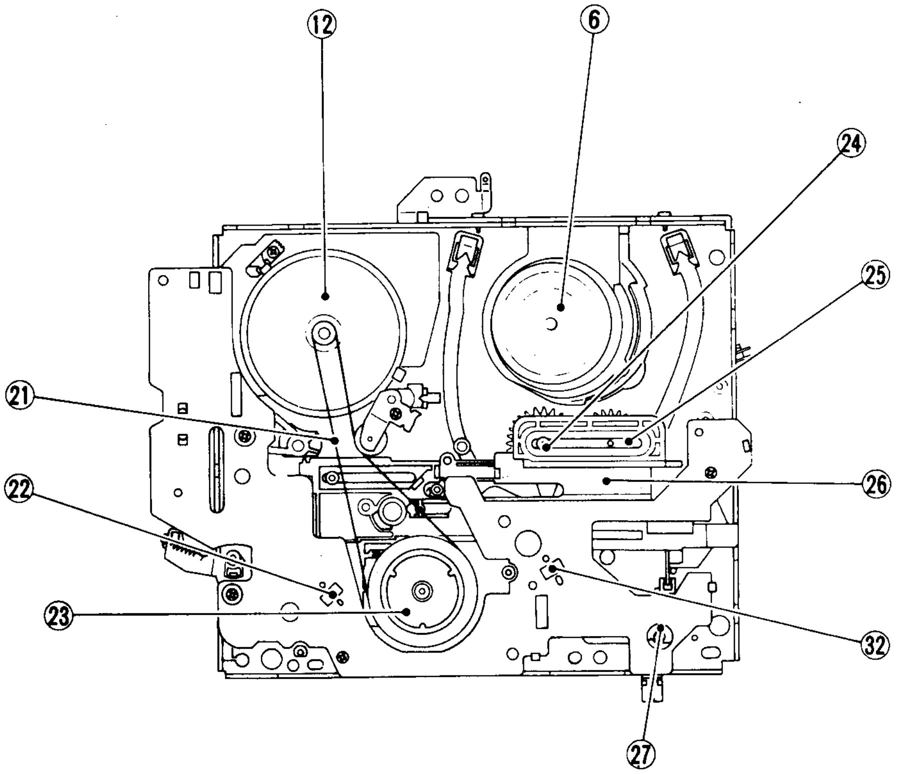

⑫
⑥
㉔
㉕
㉑
㉖
㉒
㉓
㉜
㉗

Fig. 1-3-2 Bottom view of main-deck

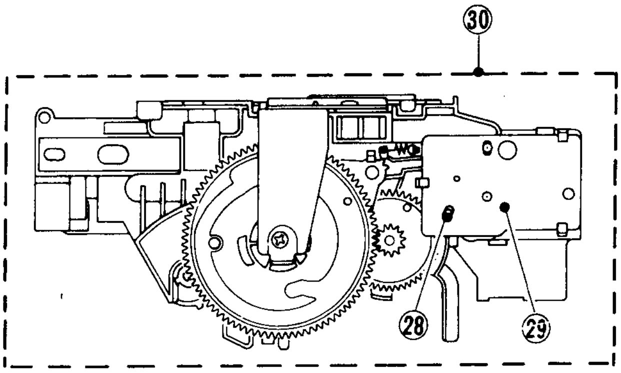


Fig. 1-3-3 Side view of cassette housing

A. Cleaning

Periodic cleaning of the tape transport system is desirable, but ordinarily not feasible in practice. Therefore, perform cleaning when a set is brought in for repairs or maintenance. Contamination of the video heads, tape guides and brushes can detract from playback picture quality and in extreme cases, even damage the tape. For cleaning, use a fine-mesh cotton cloth (about the texture of a white dress-shirt) moistened in alcohol.

- To clean the video heads, press the moistened cloth gently against the upper drum with fingertip and turn the drum by hand.
- Do not use a vertical stroke, as this may damage the heads.

B. Lubrication

Oil and grease do not normally require periodic replenshing. Apply only when replacing lubricated parts (also clean and replace lubrication of mating parts if soiled).

For parts and points to apply oil and grease, refer to the exploded views of the mechanism assembly.

Before oiling, clean with alcohol.
Apply one or two drops of oil. Avoid excess oil.

1. Table 1-3-1 indicates the oil and grease used in this set. Use these or recommended locally available equivalents:

Category	Part No.
Oil	COSMO-HV56
Grease	KANTO-G-31KAV

Table1-3-1

2. Grease is not required for a replacement cassette housing assembly, as this has been applied at the factory.

Note: ***Stir grease that has been stored for an extended period.***

C. Main mechanical parts

See Fig.s 1-3-1, 1-3-2 and 1-3-3.

No.	Symbol	Parts Name	See Section
1	M32A	Upper drum assy	1.5.1
2	M44	Full erase head	
3	51Q1	End sensor	
4	M41	Tension arm assy	1.5.4
5	M42	Tension band assy	1.5.4
6	M32C	Lower drum motor assy	1.5.2
7	M461	REC safety switch	
8	M32D	Brush assy	
9	M449	Half loading gear assy	1.5.5
10	M447	Guide arm assy	1.5.5
11	M48	A/C head	1.5.3
12	M422	Capstan motor	
13	M442	Pinch roller arm assy	
14	M434	Loading (Mode) motor assy	
15	M446	Pinch roller cam	1.5.5
16	M438	Control cam	1.5.5
17	M437	Loading belt	
18	M460	LED holder (D1)	
19	M430	Reel disk (take-up)	
20	M424	Idler gear unit	
21	M429	Timing belt	
22	51PS1	Take up reel sensor (PHS1)	
23	M426	Clutch unit	1.5.6
24	M433	Take up loading arm assy	1.5.7
25	M432	Supply loading arm assy	1.5.7
26	M439	Plate assy	1.5.7
27	M462	Slide encoder (S3)	
28	56PHS3	Cassette sensor (PHS3)	
29	56Q2	Start sensor (Q2)	
30	M36	Cassette housing assy	
31	M470	Reel disk (supply)	

- Symbol interpretation example

M32A
└ Ref. No.
└ Exploded view symbol

56 Q2
└ Ref. No.
└ Board No.

1.4 INSPECTION AND MAINTENANCE

This product employs rotary and moving parts which wear out in the course of usage. Periodic inspection, cleaning, lubrication and maintenance are therefore important for ensuring maximum performance. Worn parts must also be replaced at when required.

1.4.1 Suggested servicing schedule for main components

The following table indicates the suggested period for such service measures as cleaning, lubrication and replacement. In practice, the indicated periods will vary widely according to environmental and usage conditions. However, the indicated components should be inspected when a set is brought for service and the maintenance work performed if necessary.

Also note that rubber parts may deform in time, even if the set is not used.

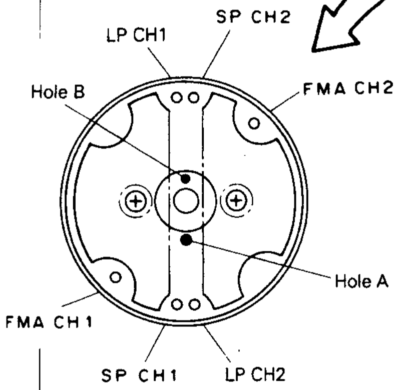
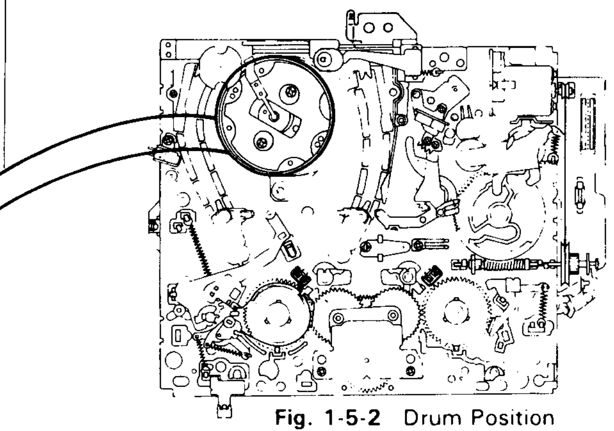
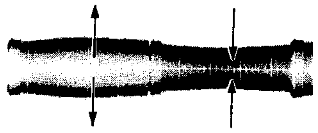
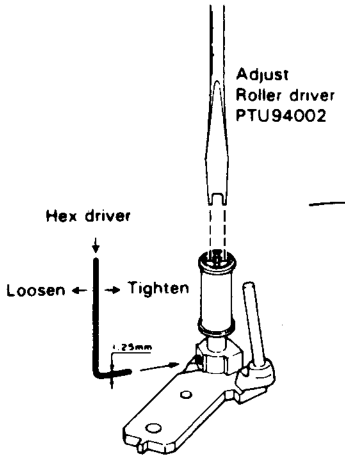
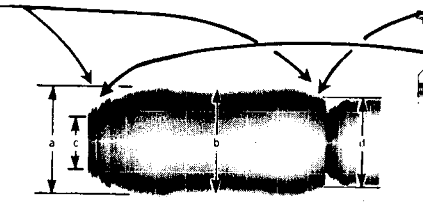
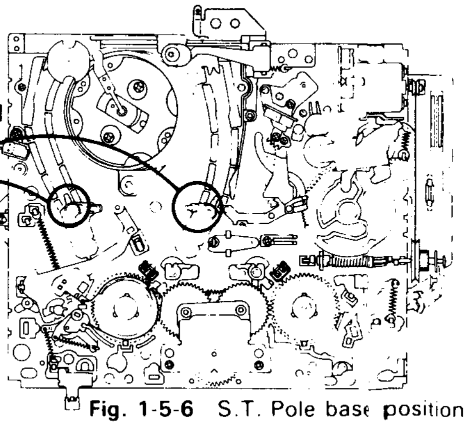
System	No.	Parts Name	Symbol No.	Periodic servicing schedule (operation hours)							
				1000	2000	3000	4000	5000	6000	7000	8000
Tape Transport	1	Upper drum assy	M32A	★	○	★		★	○	★	
	11	A/C head	M48	★	★	★	○	★	★	★	○
	13	Pinch roller arm assy	M442	★	○	★	○	★	○	★	○
	2	Full erase head	M44	★	★	★	○	★	★	★	○
	4	Tension arm assy	M41								
	6	Drum motor assy	M32	★	★	★	○	★	★	★	○
	12	Capstan motor	M422	★	★	★	★	★	★	★	○
	9	Half loading gear assy	M449								
	10	Guide arm assy	M447								
Drive	12	Capstan motor	M422	★	★	★	○	★	★	★	○
	17	Loading Belt	M437				○				○
	21	Timing Belt	M429				○				○
	19	Take-up reel disk	M430				★				○
	31	Supply reel disk	M470				★				○
	23	Clutch unit assy	M426				○				○
	14	Loading motor assy	M434				○				○
		Worm clutch assy	M436				△				△
	26	Plate assy	M439				△				△
Others	5	Tension band assy	M42				○				○
	8	Brush assy	M32D		○		–		○		–

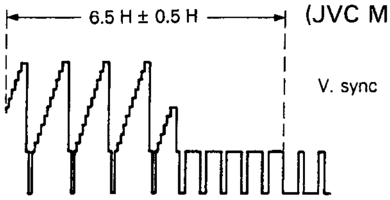
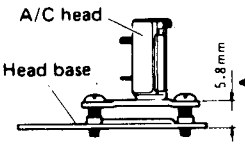
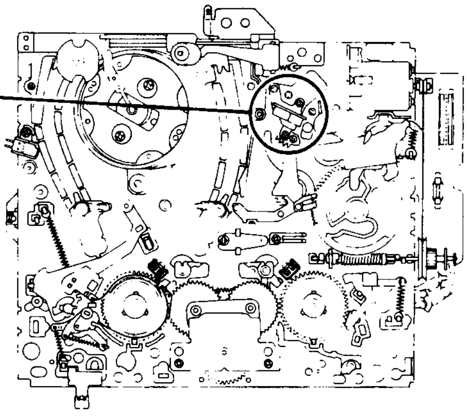
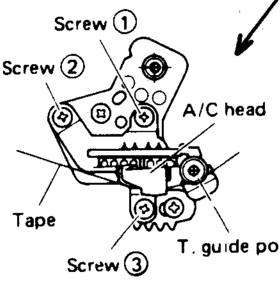
★ : Cleaning
☆ : Cleaning (or Replacement if necessary)
△ : Lubrication
No: Refer to Main mechanical parts

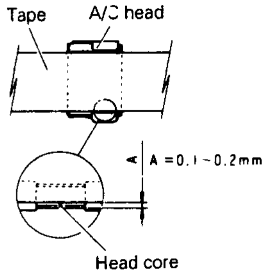
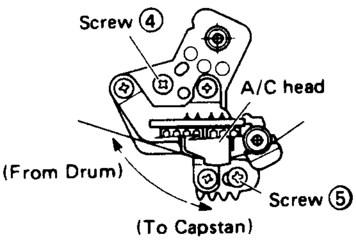
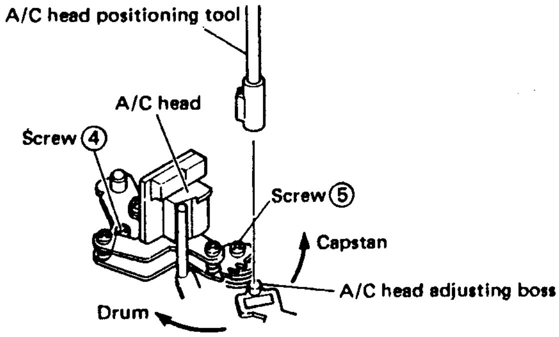
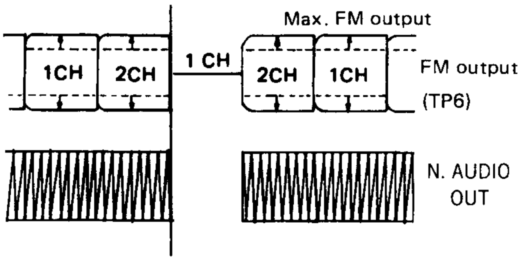
▲ : Lubrication (or Replacement if necessary)
○ : Inspection or Replacement if necessary

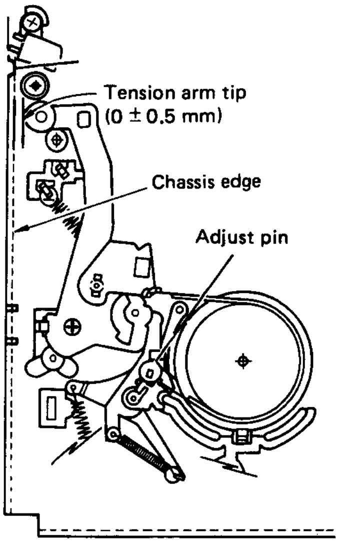
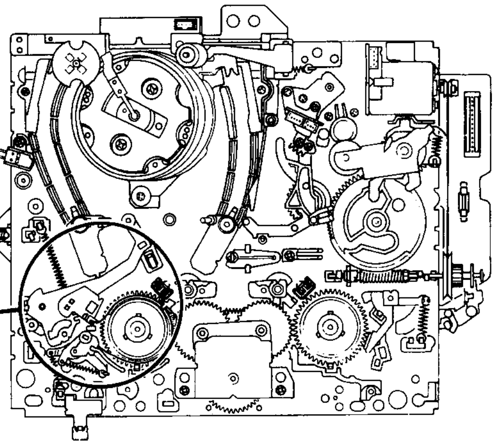
Table 1-4-1 Approximate maintenance schedule

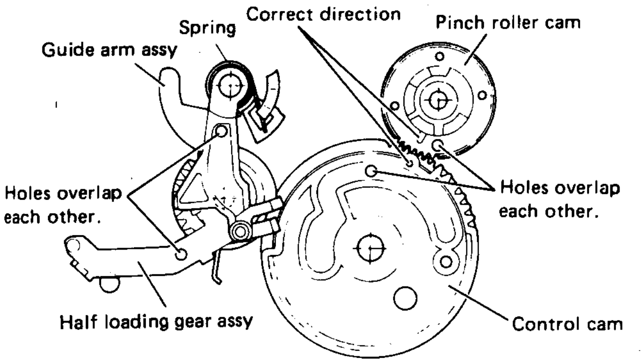
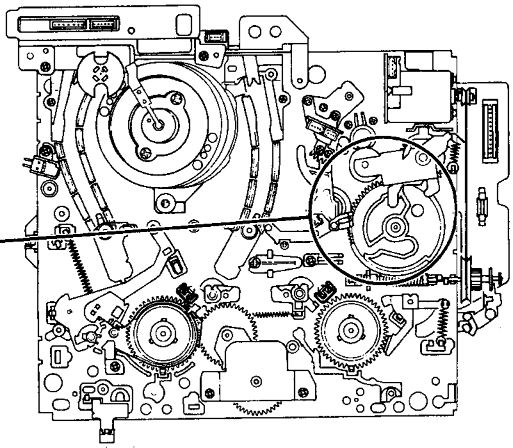
1.5 MAIN PARTS REMOVAL AND REPLACEMENT

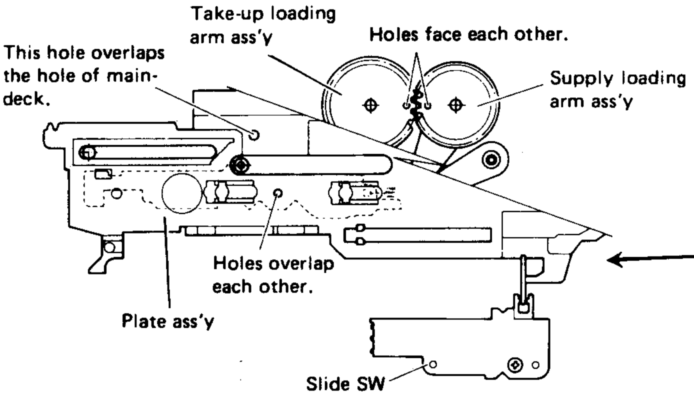
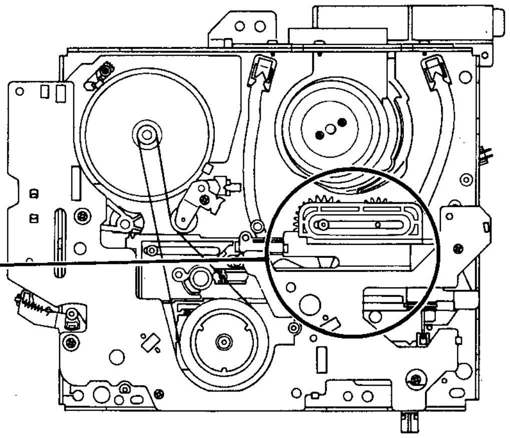
No.	Item	Checkpoints	Adjustment and Checks
1	Upper drum assembly •Symptoms: FM signal absent, intermittent or weak on one channel; large difference in channel output levels •Cause: Worn or damaged video heads, poor response, etc.  LP CH1 SP CH2 Hole B FMA CH2 Hole A FMA CH 1 SP CH1 LP CH2 **Fig. 1-5-1** DRUM TOP VIEW	 **Fig. 1-5-2** Drum Position Mounting direction See Fig. 1-5-1. (Symptom: no picture)	After replacing, observe that upper drum hole A is opposite the motor axis from lower drum hole B.
		Axis wobble See Fig. 1-5-2. (Symptom: jitter, poor FM linearity) PB FM: VIDEO INTERFACE board TP6 FF: VIDEO INTERFACE board TP411	Record and playback in LP mode. Confirm absence of large difference between channels. (Fig. 1-5-3)  **Fig. 1-5-3** Axis wobble
	 Adjust Roller driver PTU94002 Hex driver Loosen Tighten 1.25mm **Fig. 1-5-4** S.T. Pole base	FM linearity check See Fig. 1-5-5. (Symptom: vertical sync absent, picture noise) PB FM: VIDEO INTERFACE board TP6 FF: VIDEO INTERFACE board TP411  **Fig. 1-5-5** FM linearity $\frac{b}{a} \geqq 0.7,\ \frac{c}{a} \geqq 0.65,\ \frac{d}{a} \geqq 0.65$	 **Fig. 1-5-6** S.T. Pole base position 1) Play stairstep signal of the MHPE Alignment Tape. Confirm absence of obvious FM waveform loss and that operating the Tracking yields the optimum point. 2) Refer to Fig. 1-5-4, adjust for loss at the left edge (drum entry) of the FM waveform by turning the guide roller of the supply pole base. Similarly, adjust for loss at the right edge (drum exit) by turning the guide roller of the take-up pole base. **Note:** ***If FM loss occurs on both channels and cannot be corrected by adjusting the guide rollers, the lower drum needs replacement.***

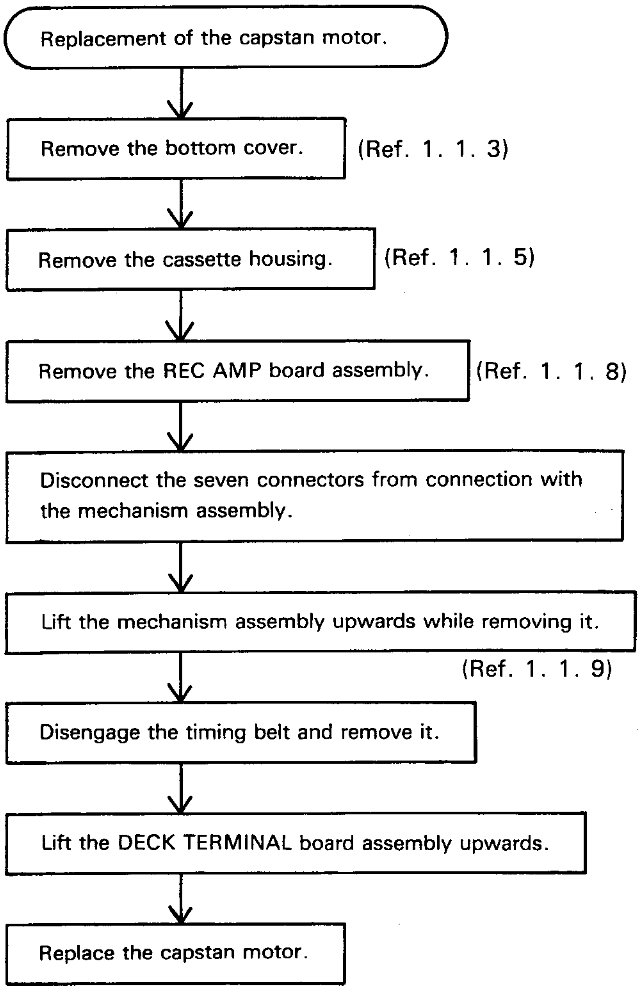
No.	Item	Checkpoints	Adjustment and Checks
	PB switching point •Symptom: switching noise at picture bottom.  **Fig. 1-5-7** PB Switching Point	VIDEO OUT or TP10 (VIDEO INTERFACE board) PRESETTING UNIT PGJ05050 (JVC MULTI MODE)	1) Connect VCR to AC. Turn power on. 2) Connect an oscilloscope to VIDEO OUT or TP 10. 3) Insert the MHPE alignment tape to the cassette housing. Play back the stairstep segment of MHPE alignment tape. 4) Trigger the oscilloscope externally (– slope) with the signal from TP411 (DRUM FF) of the VIDEO INTERFACE board. 5) Adjust by pressing 5.1(+) or 5.2(–) buttons of presetting unit for position the trigger point 6.5 H ± 0.5 H from V. sync as shown in Fig. 1-5-7. (Ref. 1. 2. 5)
2	Lower drum assembly •Symptoms: Poor FM linearity, noisy rotation, jitter •Cause: Lead and bearing wear	Check FM linearity and switching point.	See above upper drum assembly items.
		Check control head phase (X value) Symptom: tracking error PB FM: REC AMP board TP53 FF: VIDEO INTERFACE board TP411	1) Play stairstep signals of MHPE and MHPE-L Alignment Tapes. Engage the Tracking Preset mode by pressing the (∨) and (∧) buttons simultaneously in the onscreen mode. Confirm that the same maximum FM waveform level is obtained as when the tracking is adjusted manually. 2) Refer to the A/C head adjustments.
3	**A/C head**  **Fig. 1-5-8** Temporary height		 **Fig. 1-5-10** A/C HEAD position
		Temporarily set height as indicated in Fig. 1-5-8.	Set the height as indicated in Fig. 1-5-8 to facilitate tape transport checks and adjustments.
	 Screw ① Screw ② A/C head Tape T. guide pole Screw ③ **Fig. 1-5-9** Inclination/Azimuth/ Height adj.	Tilt (forward inclination) See Fig. 1-5-9. (Symptom: audio level varies greatly.)	1) Run tape, turn screw ① counterclockwise to where slight curling of the tape occurs at the lower flange of the take-up guide roller. 2) Then slowly turn the screw clockwise to where the curling ceases.
		Azimuth See Fig. 1-5-9. (Symptoms: audio low level or noisy) Audio output: AUDIO OUT	1) Set front panel AUDIO MONITOR selector to Normal and play stairstep signal (with audio 6 kHz) of the MHPE Alignment Tape. Observe audio output signal with oscilloscope. 2) Turn screw ② and adjust for maximum audio output level.

No.	Item	Checkpoints	Adjustment and Checks
	 **Fig. 1-5-11** Height Adj	Height See Figs. 1-5-9 and 1-5-11. (Symptom: low audio and control signal levels)	1) Run tape and observe the control head area. 2) Turn screws ①, ② and ③ by small and equal amounts until 0.1 to 0.2 mm of the head core bottom can be seen. Note: *If difficult to observe, play stairstep signal of MHPE Alignment Tape and adjust for maximum audio output and control pulse level.*
		FM linearity	Refer to upper drum assembly items. If adjustment is major, again check the azimuth.
	 Screw ④ A/C head (From Drum) Screw ⑤ (To Capstan) **Fig. 1-5-12** CTL head phase  A/C head positioning tool A/C head Screw④ Screw⑤ Capstan A/C head adjusting boss Drum Adjust two phase. (±1 field)  Max. FM output 1CH 2CH 1 CH 2CH 1CH FM output (TP6) N. AUDIO OUT **Fig. 1-5-13** CTL head phase	Control head phase See Fig. 1-5-12 PB FM: VIDEO INTERFACE board TP6 NORMAL AUDIO: AUDIO OUT FF: VIDEO INTERFACE board TP411	1) Play stairstep signal of MBPE-X Alignment Tape and observe the FM waveform. Set for Tracking Preset by pressing the ∨ and ∧ buttons simultaneously in the onscreen mode. 2) Loosen screws ④ and⑤. Set the A/C head positioning tool on screw ④, with the stud inserted into the nearby oblong hole. (Loosen screws ④and ⑤. Set theA/C head positioning tool on the A/C head adjusting boss as shown in Fig. 1-5-12.) 3) Adjust the position of the A/C head so that both phases of audio waveform and FM waveform coincide with each other in the non-recorded part and the FM output becomes nearly the maximum. 4) Tighten screw ⑤ . Remove the tool and tighten screw ④. 5) Play stairstep signal of MHPE-L Alignment Tape and confirm maximum FM waveform output level as shown in Fig. 1-5-13. 6) If not maximum, slightly loosen screws ④ and ⑤. Use the tool and adjust the head position for the nearest maximum point. Then tighten screws ④ and ⑤.
		LP auto tracking	1) Terminate the video output at 75 ohms with a monitor-TV and connect oscilloscope to PB FM (TP6). 2) Set MHPE-L Alignment Tape into the cassette housing and play the stairstep signal. 3) Confirm that the A/V digital tracking LED changes from flashing to lighted. Note: *If the Alignment Tape ejects automatically, repeat the control head phase adjustment.*

No.	Item	Checkpoints	Adjustment and Checks
4	**Tension arm assembly** **Tension band assembly**  Tension arm tip (0 ± 0.5 mm) Chassis edge Adjust pin **Fig. 1-5-14** Tension arm assy	**Tension pole position** See Fig. 1-5-14. **(Symptom: poor FM waveform response)**	 **Fig. 1-5-15** Tension arm position 1) Remove the cassette housing assembly and set the mechanism for the playback mode (see Section 1.2.2). 2) Turn the eccentric adjust pin to align the tip of the tension arm with the edge of the main deck.
			1) For replacing the tension band assembly, pull out the adjust pin (eccentric pin) upwards first. 2) Then, pull out the tension arm assembly upwards. 3) Fit a new tension band assembly to the mechanism in the reverse manner of the above steps 1) and 2). After the installation, check back tension and adjust it as specified.
		Back tension **(Symptom: skew)**	**1) When the tension pole position is correctly adjusted, the back tension will assume the correct value.** **2) Use the Back Tension Cassette Gauge and set for the playback mode. Confirm reading of 35 to 48g-cm.** **3) Changing the tension pole position in order to vary the back tension will cause adverse effects elsewhere.**
		When use the Tentelometer	1) Required instruments for this adjustment: Tentelometer (PGJ04020) 2) Use a tape begin portion of T-180 cassette tape and set to the REC mode. 3) Measure the tension between the impedance roller and the full erase head, and make sure of it in the range between 21 and 29g-cm. (25±4g-cm)

No.	Item	Checkpoints	Adjustment and Checks
5	Pinch roller cam Control cam Half loading gear assembly Guide arm assembly  Spring Correct direction Pinch roller cam Guide arm assy Holes overlap each other. Holes overlap each other. Half loading gear assy Control cam **Fig. 1-5-16** Control/Pinch roller cam		Set mechanism to Eject mode (internal holder of the cassette housing is locked in raised) position.  **Fig. 1-5-17** Control cam position
		Important: Do not remove or disturb parts other than those mentioned. See Fig. 1-5-16.	1) When installing the pinch roller cam, overlap the largest hole of the gear portion with the hole of the deck. 2) Set the control cam on the deck with the hole of the groove overlapped with the hole of the deck. Observe that the small hole of the control cam and the ridge of the pinch roller cam are aligned. (If the control cam does not fit readily, shift the rear plate assembly within the range of play.) 3) Install the half loading gear assembly with the hole overlapped with the hole of the deck. Secure with E-ring. 4) Install the guide arm assembly over the spring and with the hole overlapping that of the deck. Engage the spring correctly.
		Cassette housing assembly	Install the cassette housing assembly with the mechanism in the Eject mode. Also observe that the inner holder of the housing is raised and locked.
6	Clutch assembly	Take-up torque (Symptom: inadequate take-up torque)	1) Remove cassette housing and set for playback mode (see Section 1.2). 2) Set torque gauge on the take-up reel disk. Gradually relax your grip on the gauge and read the needle indication at the point the gauge begins to rotate with the disk. Confirm indication of 60 to 100g-cm.

No.	Item	Checkpoints	Adjustment and Checks
7	Take-up loading arm assembly Supply loading arm assembly Plate assembly		**Note:** • *Set mechanism to the Eject or Stop mode before removing these parts.* • *The flange of the plastic rivet securing the loading arm assembly and the pole base assembly can be damaged by attempting to remove it directly. Press the loading arm assembly firmly to prevent motion. Then use a narrow-shafted tool to press the rivet from the shaft end to remove it.*
		Mounting position alignment • Remove the tension arm assembly to facilitate operation. See Fig. 1-5-18.	1) Set the supply and take-up loading arm assemblies so that the holes of the gear portions are aligned, then secure to the pole base assemblies with rivets. 2) Shift the plate assembly and install with the holes of the upper and lower components overlapped.
		Slide switch See Fig. 1-5-18.	Be sure to engage the slide switch slider with the edge of the plate assembly.
		 Take-up loading arm ass'y Holes face each other. This hole overlaps the hole of main-deck. Supply loading arm ass'y Holes overlap each other. Plate ass'y Slide SW **Fig. 1-5-18**	 **Fig. 1-5-19** T.S. Loading arm position
8	Pinch roller arm assembly		1) For replacing the pinch roller assembly, remove the slit washer (PQM30017-12) retaining the pinch roller assembly. 2) Fix the pinch roller press lever while turning the pinch roller arm assembly counterclockwise to remove it. 3) Engage the tension spring with a new pinch roller arm assembly first, then turn the pinch roller arm assembly counterclockwise for installation.

No.	Item	Checkpoints	Adjustment and Checks
9	Loading belt		1) For replacing the loading belt, lift the worm clutch assembly upwards. 2) Engage a new loading belt with the worm clutch assembly, and set the worm clutch assembly as it was.
10	Timing belt & Capstan motor  Replacement of the capstan motor. Remove the bottom cover. (Ref. 1. 1. 3) Remove the cassette housing. (Ref. 1. 1. 5) Remove the REC AMP board assembly. (Ref. 1. 1. 8) Disconnect the seven connectors from connection with the mechanism assembly. Lift the mechanism assembly upwards while removing it. (Ref. 1. 1. 9) Disengage the timing belt and remove it. Lift the DECK TERMINAL board assembly upwards. Replace the capstan motor.		1) Remove six screws (SDSG3008Z) from the mold retaining the bottom cover and four screws (SDSF3010Z) from the mold of the foot assembly, then, remove the bottom cover. 2) Loosen the setscrew (PQ45121A) of the pulley arm assembly. 3) Engage a new timing belt with the pulley arm assembly, and set it so as to stretch the timing belt tight. 4) For replacing the capstan motor, it needs to remove the mechanism assembly. Moreover, the REC AMP board assembly, the DECK TERMINAL board assembly, etc. must be removed in addition to disconnection of connectors concerned for replacing the capstan motor.

SECTION 2
ELECTRICAL ADJUSTMENT

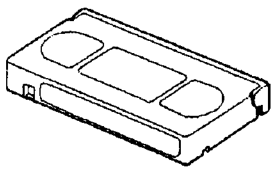
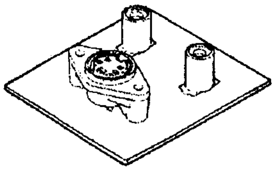
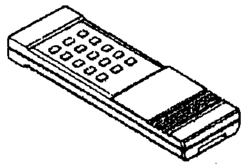
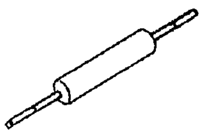
2.1 Precaution

Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipments is available.

2.1.1 Required test equipment

1. Colour television monitor.
2. Osciloscope: wide-band, dual-trace, triggered delayed sweep
3. Frequency counter
4. Audio oscillator
5. Audio voltmeter
6. Digital voltmeter
7. Signal generator: RF/IF sweep/marker
8. Signal generator: PAL colour bar, stairstep
9. Recording tape

2.1.2 Required adjustment tools

Alignment tape (SP) MHPE	RCA-S Adapter PTU93001A
	
Presetting unit PGJ05050	*SMC replacement tools YTU94038C
	
Adjustment driver YTU93004-2	
	

***NOTE:** *It is convenient for replacing chip parts.*

2.1.3 Colour bar signal and pattern

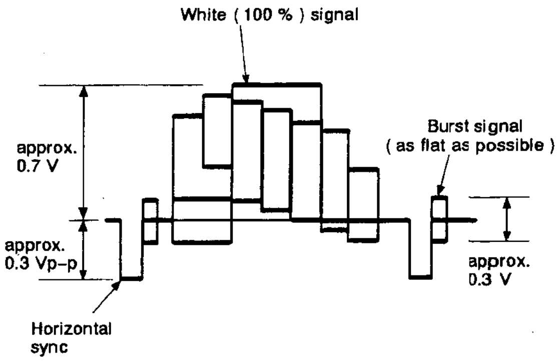

White (100 %) signal
Burst signal
(as flat as possible)
approx.
0.7 V
approx.
0.3 Vp-p
approx.
0.3 V
Horizontal
sync

Fig. 2-1-1 Colour bar signal of pattern generator

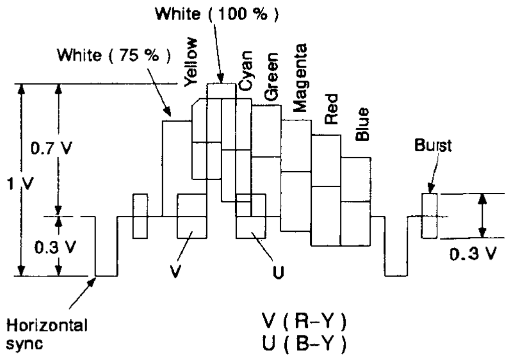

White (100 %)
White (75 %)
Yellow
Cyan
Green
Magenta
Red
Blue
Burst
0.7 V
1 V
0.3 V
0.3 V
V
U
Horizontal
sync
V (R-Y)
U (B-Y)

Fig. 2-1-2 Colour bar signal waveform

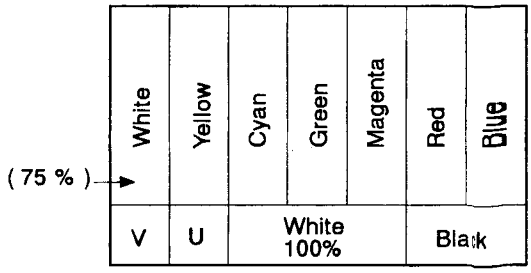
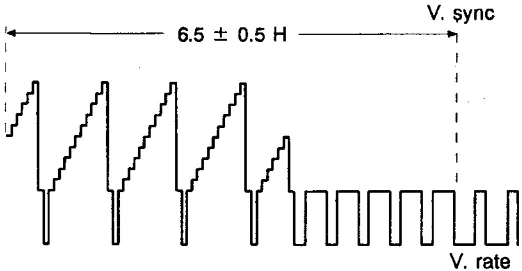

White
Yellow
Cyan
Green
Magenta
Red
Blue
(75 %)
V
U
White
100%
Black

Fig. 2-1-3 Colour bar pattern

2.2 SWITCHING REGULATOR CIRCUIT

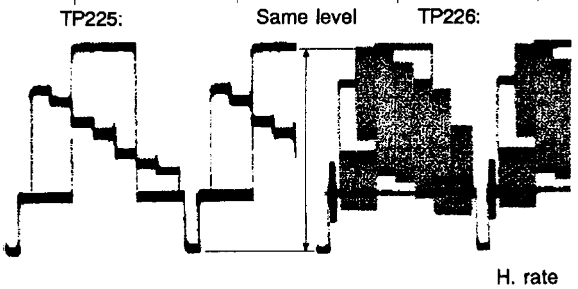
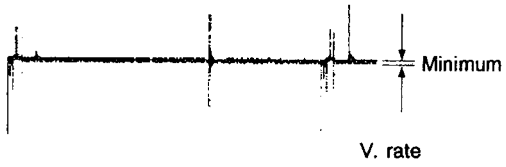
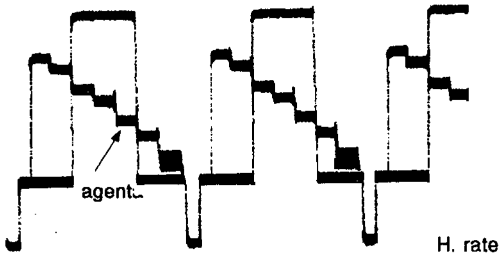
No.	Item	Check Point	Adjustment Parts	Signal	Mode	Check and Adjustment
1	5 VDC OUTPUT VOLTAGE	TP 418 solder side	R36$\boxed{0}\boxed{2}$	COLOUR BAR	SVHS-SP REC	1) Connect a digital voltmeter to TP4. 2) Record a colour bar signal. 3) Adjust R36 for 5.32 ±0.05VDC.

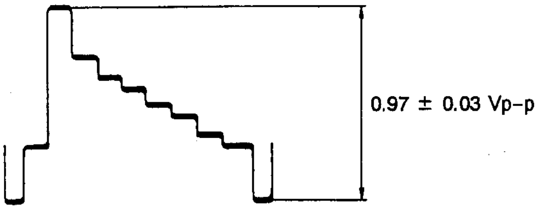
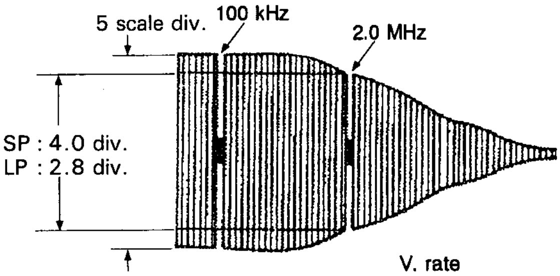
2.3 SERVO CIRCUIT

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Check and Adjustment
1	PB SWITCHING POINT	VIDEO OUT (75 Ω terminated) Ext. trigger: TP411 VIDEO INTERFACE BOARD $\boxed{1}\boxed{0}$  Fig. 2-3-1 Switching point	PRESETTING UNIT PGJ05050 JVC MULTI MODE	MHPE STAIRSTEP	PB DIGITAL TRACKING :OFF	1) Connect an oscilloscope to video out. (TP10 VIDEO INTERFACE $\boxed{1}\boxed{0}$) 2) Playback recorded signal of the alignment tape. 3) Set the tracking control to the center position by simultaneously pressing the (∨) and (∧) buttons. (DIGITAL TRACKING : OFF) 4) Then press the tracking button to maximize the FM level. 5) Adjust by "5.1" (+) or "5.2" (–) buttons of presetting unit (PGJ05050, JVC MULTI MODE) for position the trigger point 6.5 H ±0.5 H from V.sync. Note: Ex."5.1" → Presetting unit button [5], [1]+[OUT] → LCD Display : 51 + 📶
2	SLOW TRACKING PRESET	MONITOR TV	PRESETTING UNIT PGJ05050 JIG MODE	COLOUR BAR	S-VHS SP REC ↓ PB	1) Record a colour bar signal in the SP mode. 2) Playback recorded signal on the FWD slow mode. (Push " ≫ " button) 3) Set the tracking control to the center position by simultaneously pressing the (∨) and (∧) buttons. (DIGITAL TRACKING: OFF) 4) Observe the display on monitor TV and adjust for optimum noise condition (best tracking) by depressing "0" (+) or "VISS" (–) buttons of presetting unit as required. (PRESETTING UNIT PGJ05050: JIG MODE) 5) Depress the stop button. 6) Confirm that the bar noise is not visible on the monitor TV in the slow mode. 7) Repeat steps 2) to 6) in REV slow mode. 8) Repeat steps 1) to 7) in LP mode.

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Check and Adjustment
3	V. PULSE POSITION	MONITOR TV	PRESETTING UNIT PGJ05050 JIG MODE	COLOUR BAR	S-VHS SP REC ↓ PB	1) Record a colour bar signal in the SP mode. 2) Playback recorded signal on the STILL mode. 3) Set the tracking control to the center position by simultaneously pressing the (∨) and (∧) buttons. (DIGITAL TRACKING: OFF) 4) Observe the display on monitor TV and adjust for optimum vertical trembling condition by depressing "0" (+) or "VISS" (–) buttons of presetting unit as required. (PRESETTING UNIT PGJ05050: JIG MODE)

2.4 VIDEO CIRCUIT

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Check and Adjustment
1	VIDEO EE LEVEL	VIDEO OUT (75 Ω terminated)	R36 [1][0]	COLOUR BAR	S-VHS EE	1) Connect an oscilloscope to video out. (TP10 VIDEO INTERFACE [1][0]) 2) Adjust R36 for 0.97 ±0.03 Vp-p.
2	Y COMB GAIN  Fig. 2-4-2 Y comb gain	TP225 [1][0] TP226 [1][0]	R206 [1][0]	COLOUR BAR	S-VHS EE	1) Connect one channel of a dual trace oscilloscope to TP225 and the other channel to TP226. 2) Adjust R206 so that both input level become the same level.
3	2H DELAYED COLOUR LEVEL  Fig. 2-4-3 2 H delayed colour level	TP231 [1][0] TP232 [1][0]	R234 [1][0] L203 [1][0]	COLOUR BAR	S-VHS EE	1) Connect one channel of dual trace oscilloscope to TP231 and the other channel to TP232. 2) Change CH-2 to reverse (INV) mode and align both channels VOLTs/DIV. Switch to the same range and select vertical mode SW to ADD. 3) Adjust R234 and L203 for minimum level.
4	Y COMB  Fig. 2-4-4 Y comb	TP225 [1][0]	R215 [1][0] R219 [1][0] R231 [1][0]	COLOUR BAR	S-VHS EE	1) Connect an oscilloscope to TP225. 2) Adjust R215, R219 and R231 alternately for minimum magenta level.

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Check and Adjustment
5	REC COLOUR LEVEL	IC2 PIN13 REC AMP BOARD [4][3]	R91 [4][3] SP REC COLOUR LEVEL R90 [4][3] LP REC COLOUR LEVEL	COLOUR BAR	S-VHS (SP) REC S-VHS (LP) REC	1) Record a colour bar signal in S-VHS SP mode. 2) Adjust for R91 for 150±10m Vp-p. 3) Record a colour bar signal in S-VHS LP mode. 4) Adjust for R90 for 180±10 mVp-p.
6	VIDEO REC/PB LEVEL	VIDEO Y OUT (75 Ω terminated)  Fig. 2-4-6 N PB Y level	R64 [1][0] VHS MODE R63 [1][0] S-VHS MODE	COLOUR BAR	VHS (SP) REC ↓ PB S-VHS (SP) REC ↓ PB	1) Connect an oscilloscope to VIDEO Y OUT. 2) Record a colour bar signal in VHS mode. 3) Adjust R64 for 0.97 ±0.03 Vp-p. 4) Connect an oscilloscope to VIDEO Y OUT. 5) Record a colour bar signal in S-VHS mode. 6) Adjust R63 for 0.97 ±0.03 Vp-p. Note: Adjustment must be performed in the VHS mode first prior to doing in the S-VHS mode. When adjustment for the VHS mode is performed again, make sure to read-just it for the S-VHS mode.
7	VHS SP MODE VIDEO REC/PB FREQ. EQ	VIDEO OUT (75 Ω terminated)  5 scale div. 100 kHz 2.0 MHz SP : 4.0 div. LP : 2.8 div. V. rate Fig. 2-4-7 N VIDEO EQ	R65 [4][3] SP MODE	COLOUR SWEEP	VHS (SP) REC ↓ PB	1) Connect the oscilloscope's probes to VIDEO OUT and TP411 (DRUM FF for external trigger) of the VIDEO INTERFACE board. 2) Record the colour sweep signal and play it back. 3) When the 100 kHz level of the higher level channel is set for 5 scale divisions on the oscilloscope screen, adjust R65 so that the 2.0 MHz level of the same channel is for 4.0 scale divisions (-2 dB). At that time, confirm that level difference between channels is within 2 dB.

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Check and Adjustment
7	VHS LP MODE VIDEO REC/PB FREQ. EQ	VIDEO OUT (75 Ω terminated)	R66 [4] [3] LP MODE	COLOUR SWEEP	VHS (LP) REC ↓ PB	4) Record the colour sweep signal and play it back. When the 100 kHz level of the higher level channel is set for 5 scale divisions on the oscilloscope screen, adjust R66 so that the 2.0 MHz level of the same channel is for 2.8 scale divisions (–5 dB). At that time, confirm that level difference between channels is within 2 dB. Note: Adjustment must be performed in the SP mode first prior to doing in the LP mode. When adjustment for the SP mode is performed again, make sure to read-just it for the LP mode.
8	S-VHS MODE VIDEO REC/PB FREQ. EQ	VIDEO Y OUT (75 Ω terminated	R35 [4] [3] SP MODE R36 [4] [3] LP MODE	MONO SWEEP	S-VHS (SP) REC ↓ PB	1) Connect the oscilloscope's probes to VIDEO Y OUT and TP411 (DRUM FF for external trigger) of the VIDEO INTERFACE board. 2) Record the mono sweep signal and play it back. 3) When the 100 kHz level of the higher level channel is set for 5 scale divisions on the oscilloscope screen, adjust R35 so that the 3.0 MHz level of the same channel is for 4.4 sclae divisions (–1 dB). At that time, confirm that level difference between channels is within 2 dB.
					S-VHS (LP) REC ↓ PB	4) Record the colour sweep signal and play it back. When the 100 kHz level of the higher level channel is set for 5 scale divisions on the oscilloscope screen, adjust R36 so that the 3.5 scale divisions (–3 dB). At that time, confirm that level difference between channels is within 2 dB. Note: Adjustment must be performed in the SP mcde first prior to doing in the LP mode. When adjustment for the SP mode is performed again, make sure to read-just it for the LP mode.

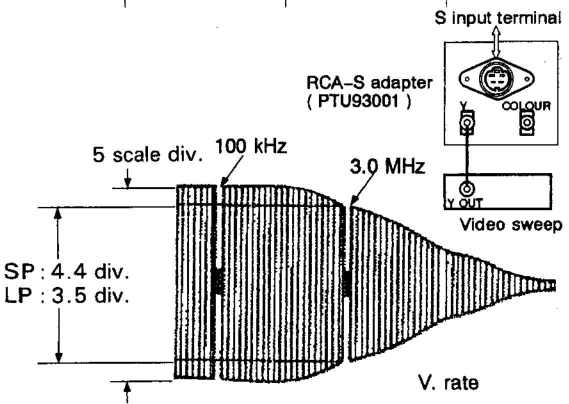


Fig. 2-4-8 S VIDEO EQ

2.5 AUDIO CIRCUIT

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Check and Adjustment
1	NORMAL AUDIO BIAS LEVEL	TP331 1 0 GND: TP332 1 0 HiFi REC: ON NR: OFF	R304 1 0 10	COLOUR BAR Audio in: no signal	VHS-SP REC	1) Connect an audio tester between TP331 and TP332. 2) Set for REC mode without incoming signal. 3) Adjust R304 for 2.5 m Vrms.
2	FM AUDIO EE LEVEL	AUDIO OUT AUDIO MONITOR SW: HiFi HiFi MONITOR SW: L+R	R302 1 0 (L-CH) R301 1 0 (R-CH)	1 KHz –8 dBs	EE	1) Confirm the REC BALANCE VR, REC LEVEL VR on the front panel being set to the center position. 2) Supply sine waveform signal of 1 KHz/-8dBs to the AUDIO IN terminal. 3) Adjust R302 and R301 so that output level of both channel L and R are -6 dBs.
3	FM AUDIO REC FM LEVEL	TP53 4 3 GND: REC AMP board shield cover HiFi REC: ON NR: OFF	R216 4 3	COLOUR BAR	S-VHS (LP) REC ↓ PB	1) Connect an oscilloscope to TP53. 2) Record no signal in S-VHS LP mode. 3) Adjust R216 so that the higher channel level is 90±10 mVp-p. (Another channel level > 60 mVp-p)

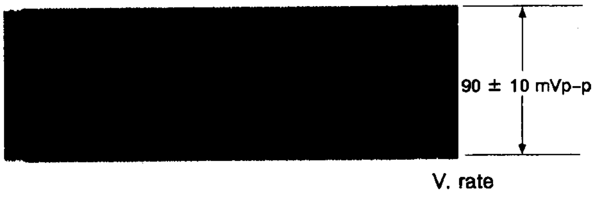


Fig. 2-5-3 Audio REC FM level

2.6 ON SCREEN CIRCUIT

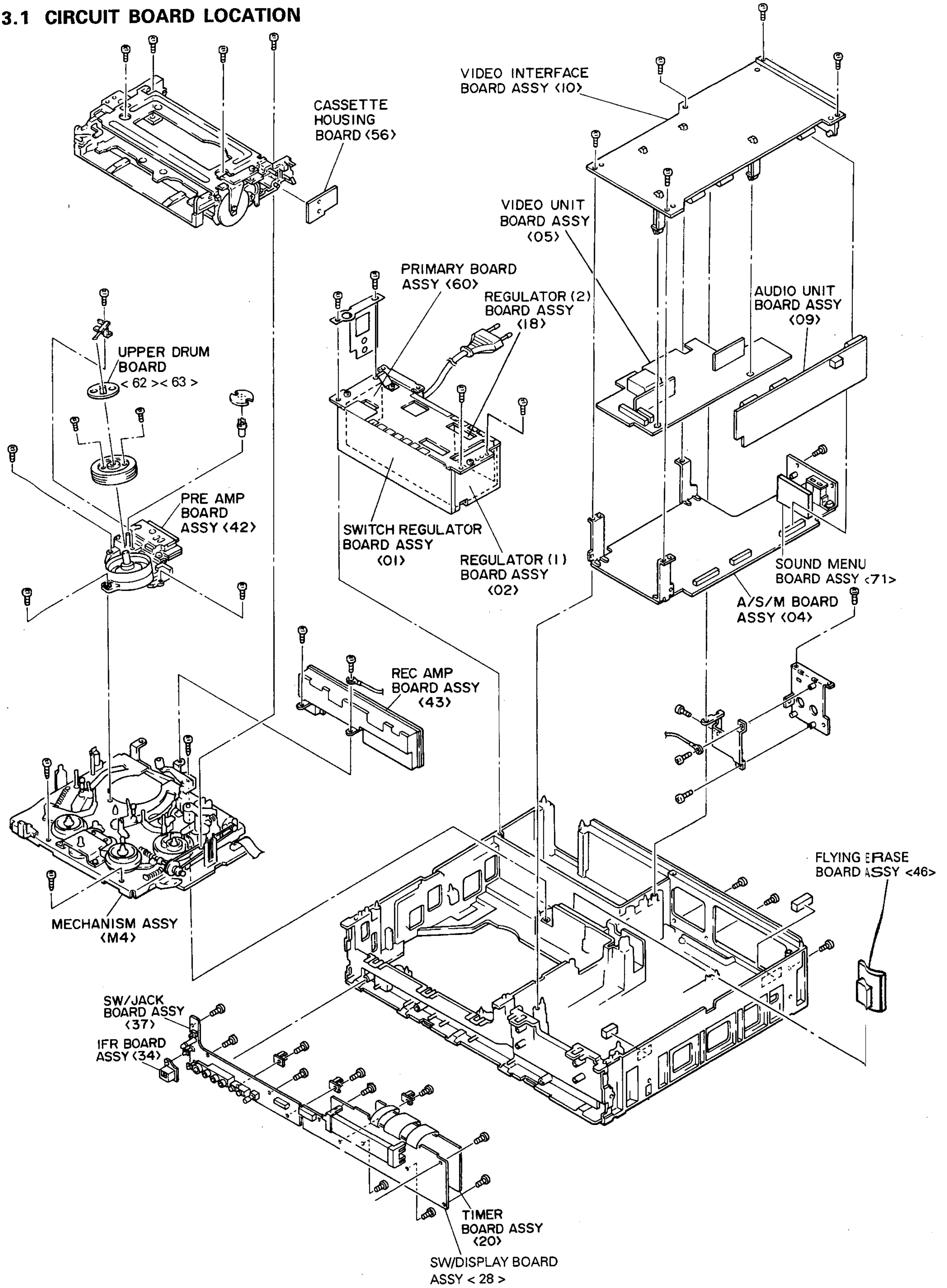
No.	Item	Check Point	Adjustment Parts	Signal	Mode	Check and Adjustment
1	DOT CLOCK	TP901 1 0 GND	C905 1 0	--	EE	1) Connect a frequency counter to TP901. 2) Short IC901 pin3 to TP GND and IC901 pin30 to IC901 pin32 (VDD 5 V). 3) Adjust C905 for 7.3 ±0.05 MHz.
2	SUB CARRIER	TP902 1 0 GND	C916 1 0	--	EE	1) Connect a frequency counter to TP902. 2) Adjust C916 for 17.73447±0.00030 MHz.

2.7 TIMER CIRCUIT

No.	Item	Check Point	Adjustment Parts	Signal	Mode	Check and Adjustment
1	TIMER CLOCK	IC1 pin16 2 0	C6 2 0	--	EE	Note: For the following adjustments, use 10:1 probe with input capacitance than 100 pF 1) Connect a frequency counter to IC1 pin 16. 2) Short IC1 pin 8 to TP GND. 3) Short the lead's capacitor C3 once in order to reset IC1. 4) Adjust C6 for T=488. 2813±0.0005 μsec. (f=2048.000±0.002 Hz)

SECTION 3
CHARTS AND DIAGRAMS

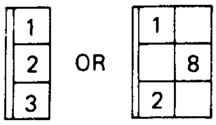
3.1 CIRCUIT BOARD LOCATION


CASSETTE HOUSING BOARD <56>
VIDEO INTERFACE BOARD ASSY <10>
VIDEO UNIT BOARD ASSY <05>
PRIMARY BOARD ASSY <60>
REGULATOR (2) BOARD ASSY <18>
AUDIO UNIT BOARD ASSY <09>
UPPER DRUM BOARD < 62 >< 63 >
PRE AMP BOARD ASSY <42>
SWITCH REGULATOR BOARD ASSY <01>
REGULATOR (1) BOARD ASSY <02>
SOUND MENU BOARD ASSY <71>
A/S/M BOARD ASSY <04>
REC AMP BOARD ASSY <43>
FLYING ERASE BOARD ASSY <46>
MECHANISM ASSY <M4>
SW/JACK BOARD ASSY <37>
IFR BOARD ASSY <34>
TIMER BOARD ASSY <20>
SW/DISPLAY BOARD ASSY < 28 >

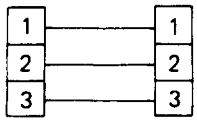
3.2 GENERAL INFORMATION

3.2.1 Connections

Note:
Unless otherwise specified, only signal input flow is indicated.
Connection arrows indicate only signal outputs.



: Connectors



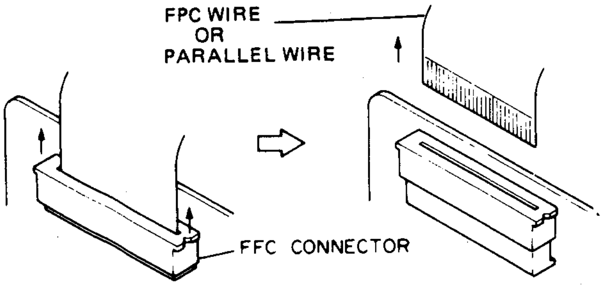
: Board in connectors

① ② ③ OR ○ ○ ○ : Direct connections

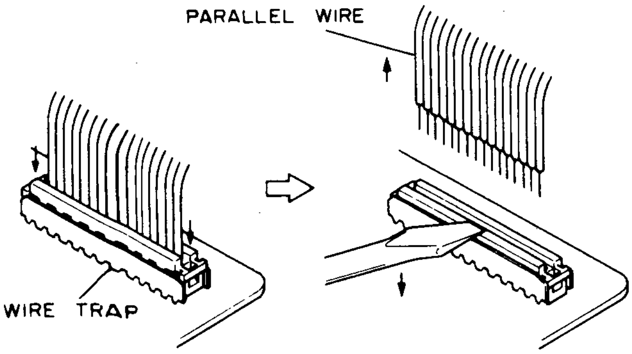
: Connected pattern in the board.
Abbreviations
V : Video M : Mechacon
S : Servo A : Audio
VS : Signal flow from video to servo.

3.2.2 Disconnecting the flatwire

1. Pull the connector structure upward to release the clamp when removing or inserting the flat wire cable.

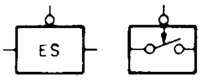


2. Depress the connector structure downward to release the clamp when removing or inserting the flat wire cable, as indicated below.

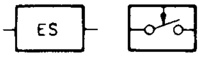


3.2.3 Indications

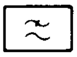
AUX : Active only at high.
$\overline{AUX}$: Active only at low.
$\bar{A}\bar{U}\bar{X}$: Active only at middle.
$\bar{A}U\bar{X}$: Active only at open.



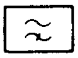
: Active only at low for electronic switch.



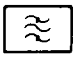
: Active only at high for electronic switch.



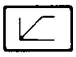
: Low pass filter.



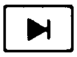
: High pass filter.



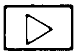
: Band pass filter.



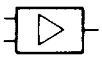
: Limiter.



: Detector



: Amplifier.



: Mixer stage.

3.2.4 Schematic diagram values

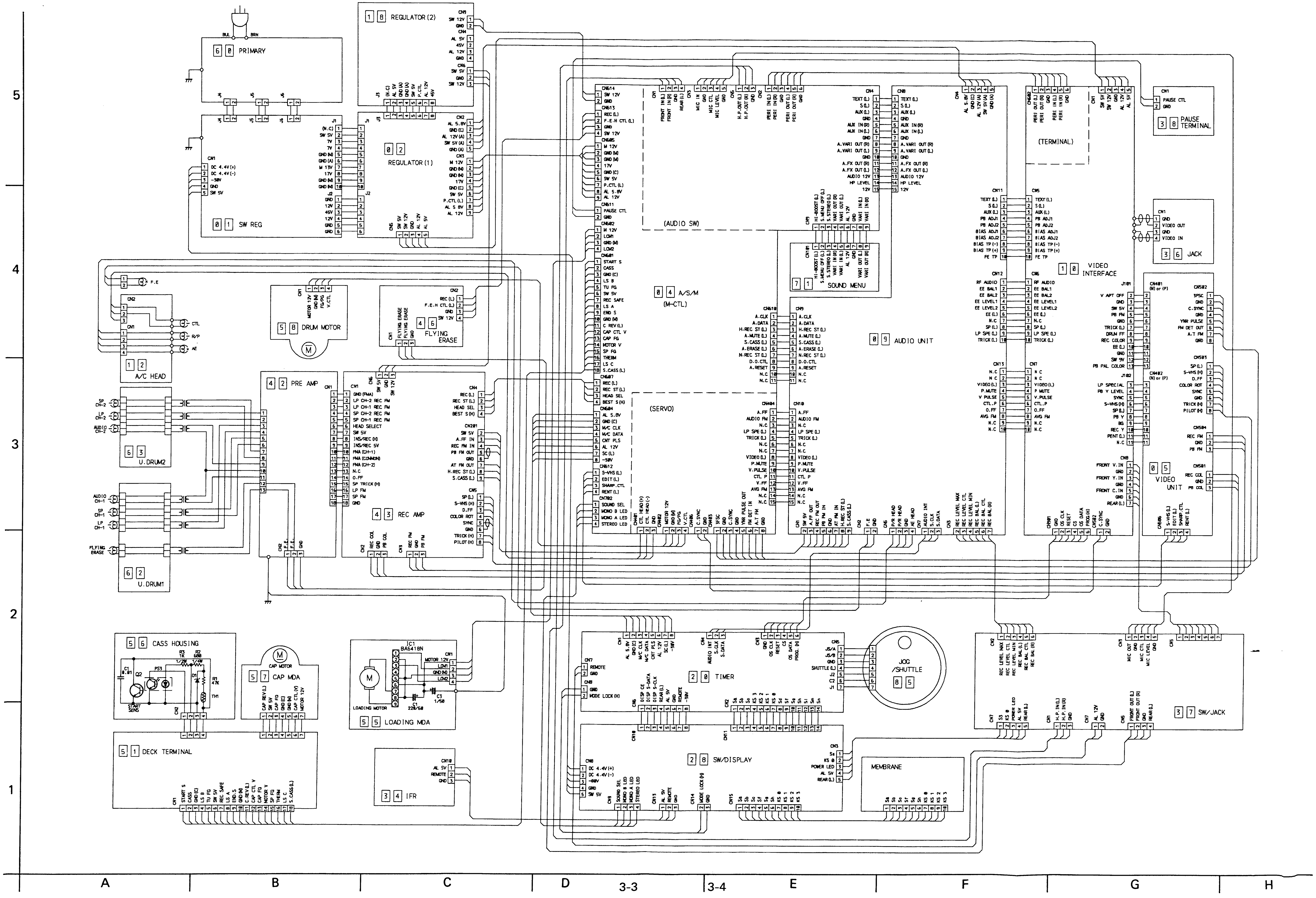
Unless otherwise specified.

1. All resistance values are in ohms, 1/6 W or 1/8 W (refer to parts list).
2. All capacitance values are in μF, (P; PF).
3. All inductance values are in μH, (m; mH).
4. All diodes are 1SS133 or MA165, (refer to parts list).
5. Voltages are DC-measured (reference to ground) with a digital voltmeter during recording (SP mode) and playback (SP mode) with alignment tape. Where voltages differ between recording and playback, the voltage during playback is shown in parenthesis.
6. Waveforms (VIDEO System) are measured (reference to ground) with a color bar during recording (SP mode) and playback (SP mode) with alignment tape.
7. Waveforms (AUDIO System) are measured (reference to ground) with 1 kHz (−8 dBs) during recording and playback with alignment tape (1 kHz).
8. Shaded (▒) parts are critical for safety. Replace only with specified part numbers.

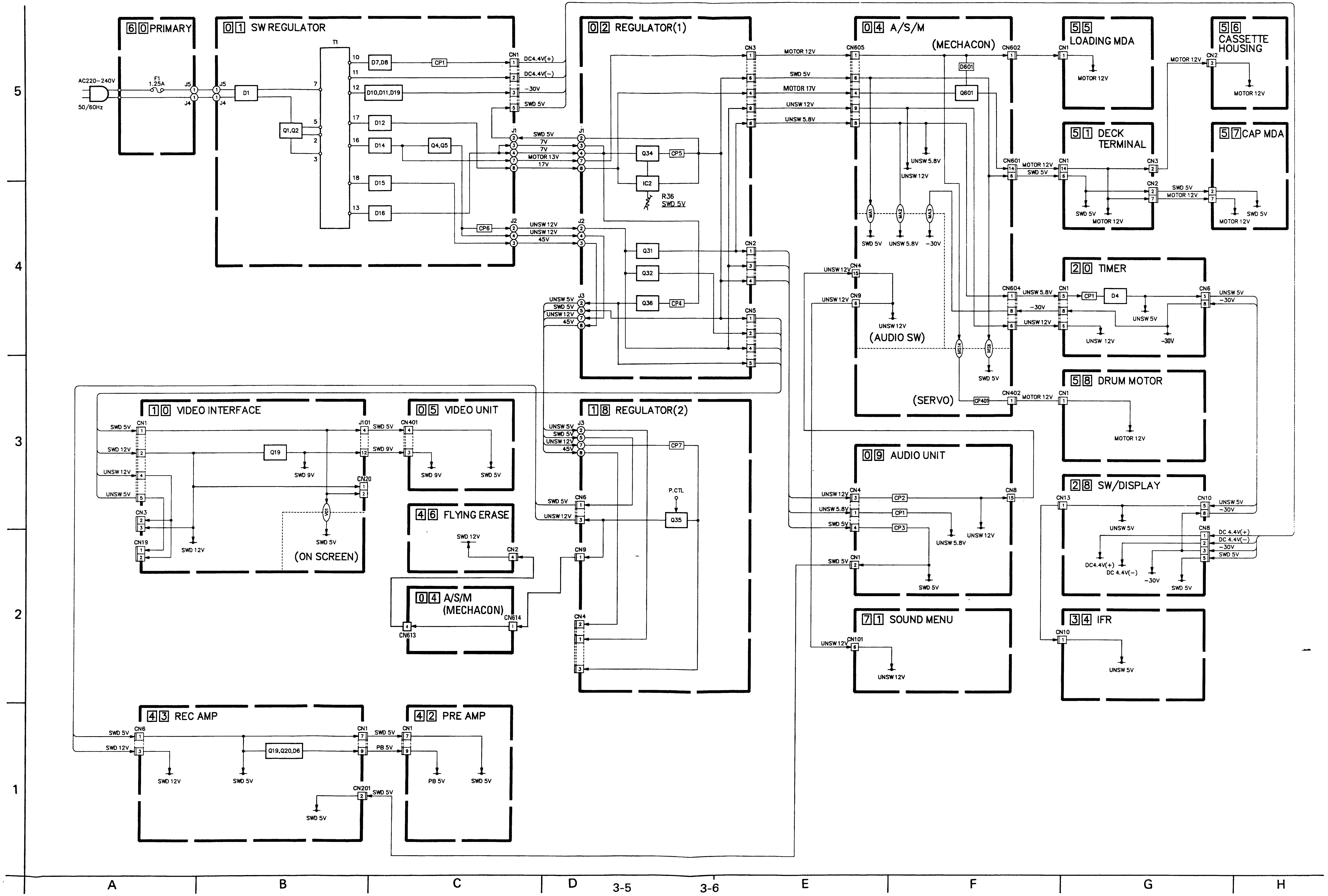
3.2.5 Signal flow in the schematic

➡ Recording signal path
⇨ Playback signal path
⇨ REC/PB signal path

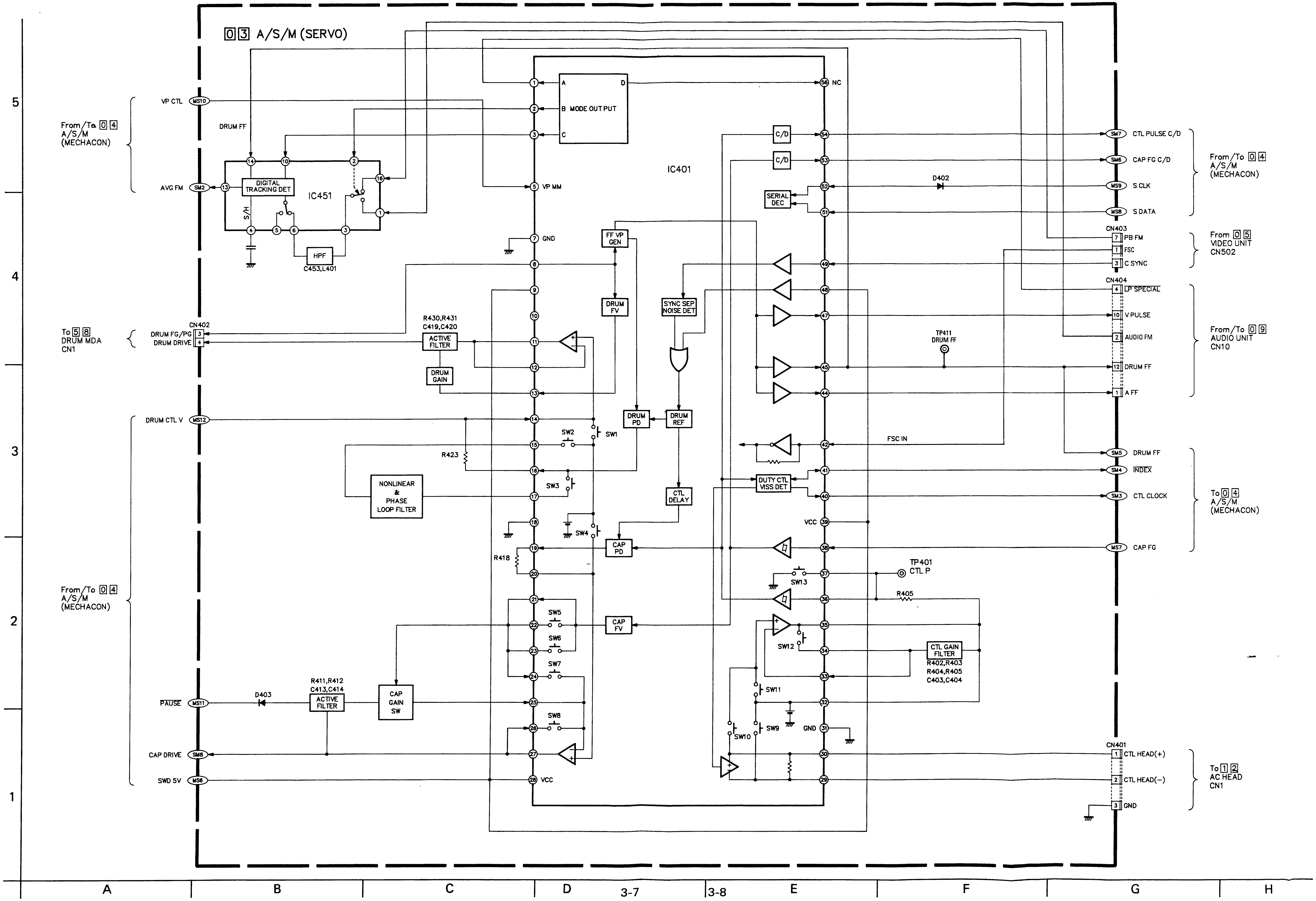
3.3 BOARD INTERCONNECTION


60 PRIMARY
18 REGULATOR (2)
02 REGULATOR (1)
01 SW REG
12 A/C HEAD
58 DRUM MOTOR
46 FLYING ERASE
42 PRE AMP
43 REC AMP
63 U.DRUM2
62 U.DRUM1
04 A/S/M (M-CTL)
(AUDIO SW)
(SERVO)
71 SOUND MENU
09 AUDIO UNIT
10 VIDEO INTERFACE
(TERMINAL)
38 PAUSE TERMINAL
36 JACK
05 VIDEO UNIT
56 CASS HOUSING
57 CAP MDA
55 LOADING MDA
51 DECK TERMINAL
34 IFR
20 TIMER
28 SW/DISPLAY
MEMBRANE
85 JOG /SHUTTLE
37 SW/JACK
1
2
3
4
5
A
B
C
D
E
F
G
H

3.4 POWER SYSTEM BLOCK DIAGRAM

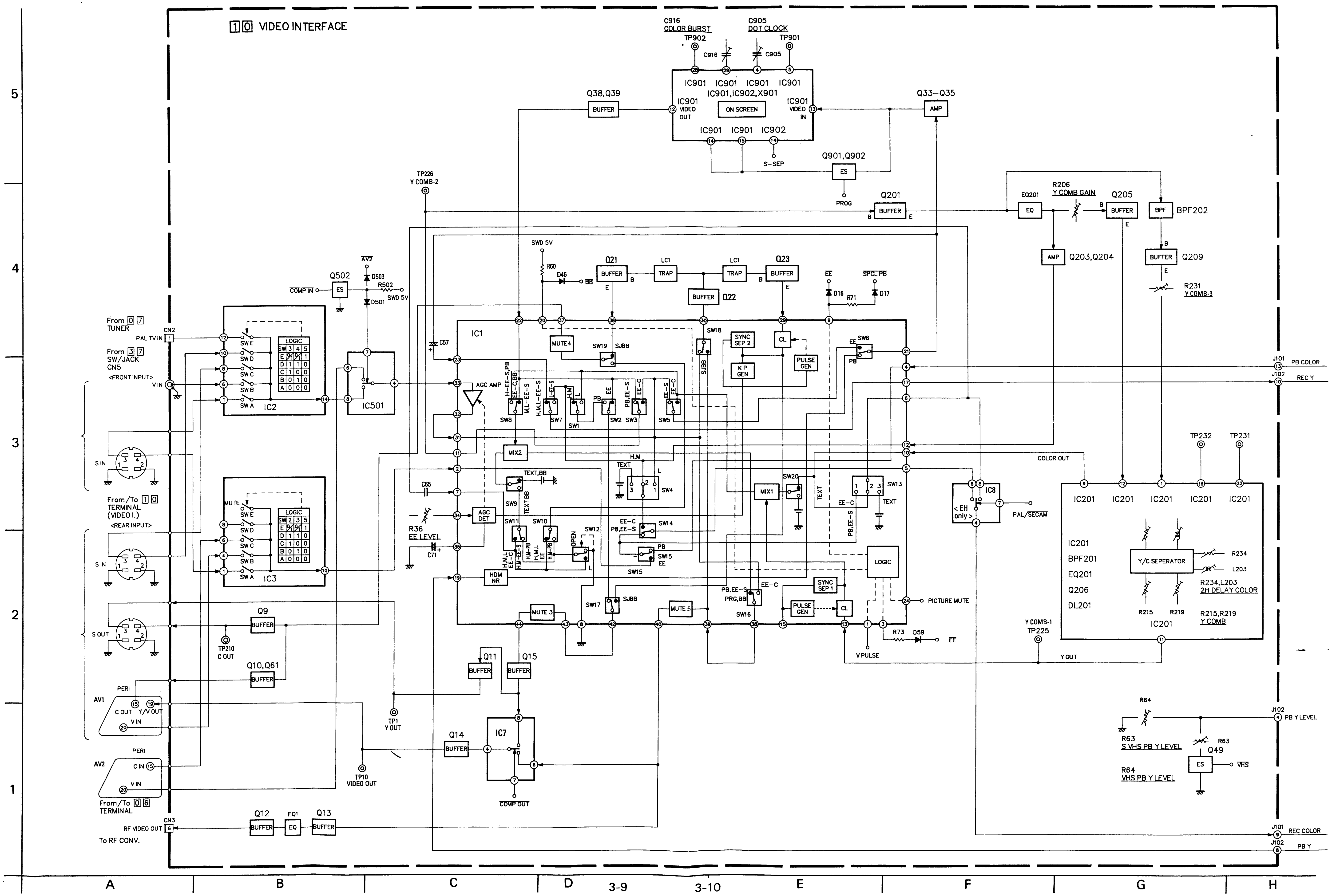

5
4
3
2
1
A
B
C
D
E
F
G
H
60 PRIMARY
AC220–240V
50/60Hz
F1
1.25A
J5
J4
01 SW REGULATOR
T1
D1
Q1,Q2
D7,D8
CP1
D10,D11,D19
D12
D14
Q4,Q5
D15
D16
CP6
CN1
DC4.4V(+)
DC4.4V(−)
−30V
SWD 5V
J1
7V
MOTOR 13V
17V
J2
UNSW 12V
45V
02 REGULATOR(1)
Q34
CP5
IC2
R36
SWD 5V
Q31
Q32
Q36
CP4
CN3
CN2
CN5
J3
UNSW 5V
04 A/S/M
(MECHACON)
CN605
MOTOR 12V
MOTOR 17V
UNSW 12V
UNSW 5.8V
D601
Q601
CN602
CN601
CN604
CN402
CP401
MA1
MA2
MA3
MS14
MS8
(AUDIO SW)
(SERVO)
55 LOADING MDA
56 CASSETTE HOUSING
51 DECK TERMINAL
57 CAP MDA
20 TIMER
D4
CN6
58 DRUM MOTOR
09 AUDIO UNIT
CP2
CP3
CN8
CN4
28 SW/DISPLAY
CN13
CN10
DC 4.4V(+)
DC 4.4V(−)
71 SOUND MENU
CN101
34 IFR
10 VIDEO INTERFACE
SWD 12V
Q19
SWD 9V
CN19
CN20
J101
(ON SCREEN)
05 VIDEO UNIT
CN401
46 FLYING ERASE
04 A/S/M
(MECHACON)
CN613
CN614
18 REGULATOR(2)
CP7
P.CTL
Q35
CN9
43 REC AMP
Q19,Q20,D6
CN201
42 PRE AMP
PB 5V

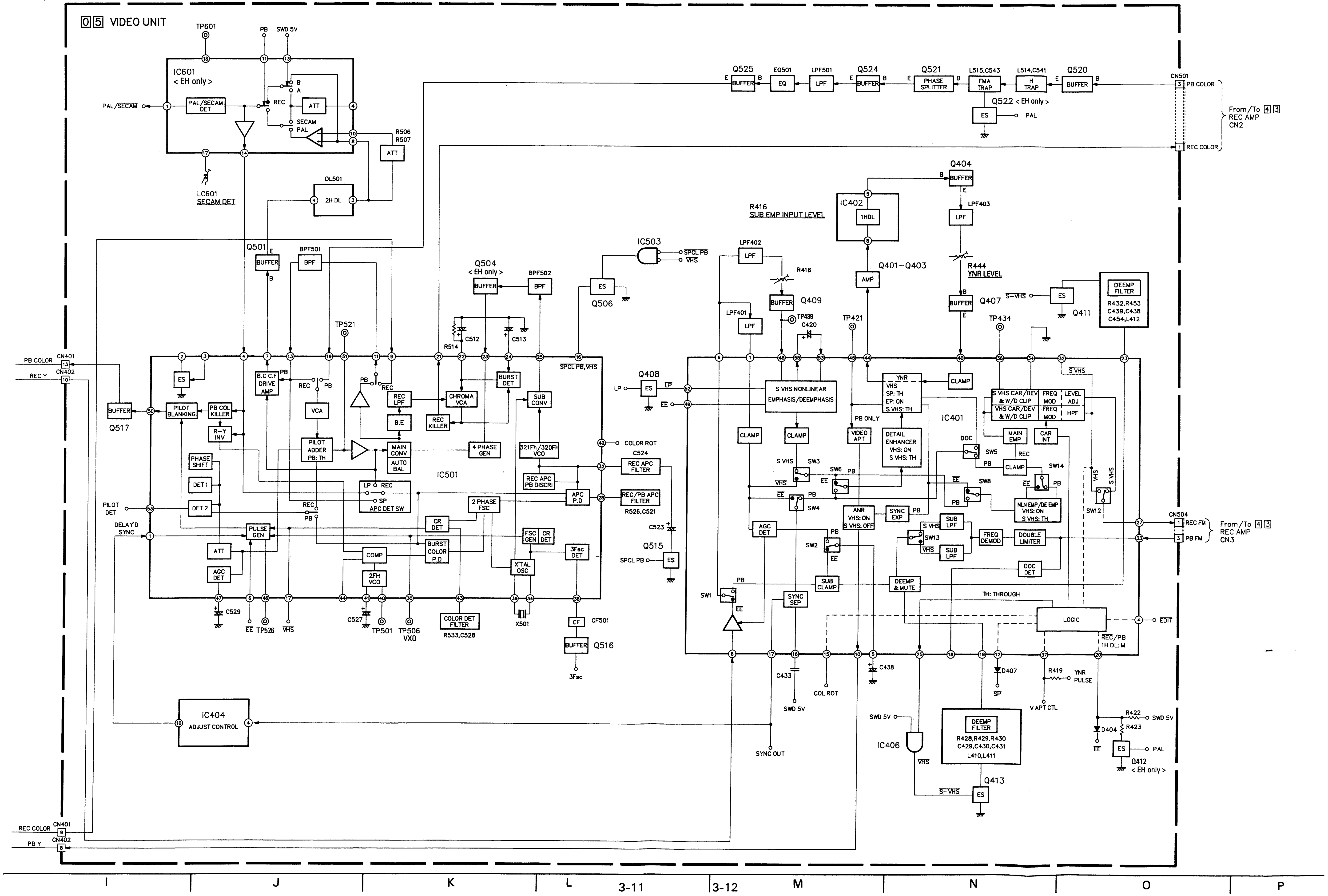
3.5 SERVO BLOCK DIAGRAM



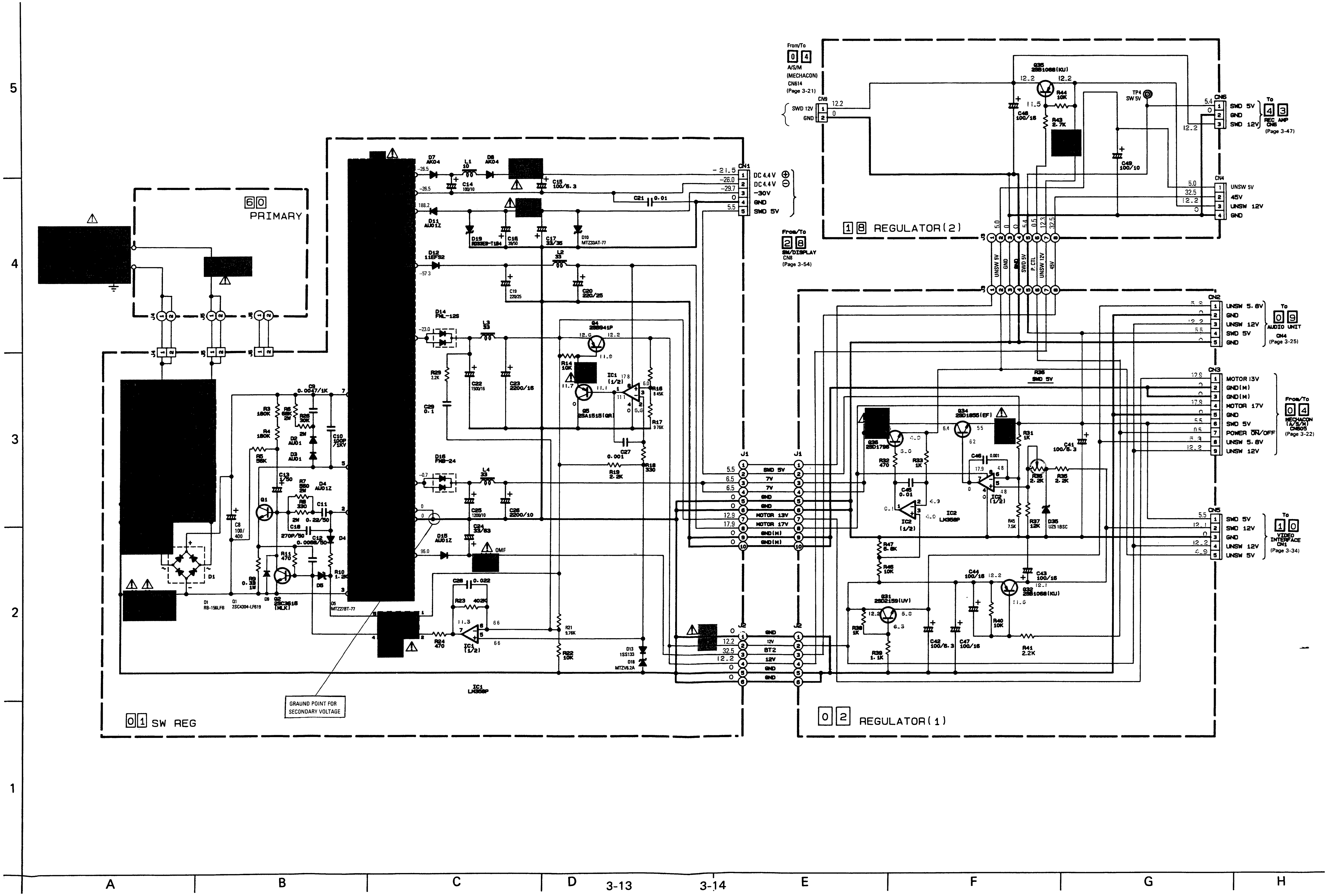
03 A/S/M (SERVO)
From/To 04 A/S/M (MECHACON)
VP CTL
MS10
AVG FM
SM2
DRUM FF
IC451
DIGITAL TRACKING DET
S/H
HPF
C453,L401
MODE OUT PUT
A
B
C
D
VP MM
GND
IC401
NC
C/D
SERIAL DEC
D402
FF VP GEN
DRUM FV
SYNC SEP NOISE DET
DRUM PD
DRUM REF
CTL DELAY
DUTY CTL VISS DET
To 58 DRUM MDA CN1
CN402
DRUM FG/PG
DRUM DRIVE
R430,R431
C419,C420
ACTIVE FILTER
DRUM GAIN
DRUM CTL V
MS12
SW1
SW2
SW3
SW4
R423
NONLINEAR & PHASE LOOP FILTER
R418
CAP PD
CAP FV
SW5
SW6
SW7
SW8
CAP GAIN SW
R411,R412
C413,C414
ACTIVE FILTER
D403
PAUSE
MS11
CAP DRIVE
SM8
SWD 5V
MS6
VCC
From/To 04 A/S/M (MECHACON)
FSC IN
TP411 DRUM FF
TP401 CTL P
SW13
R405
SW12
SW11
SW9
SW10
CTL GAIN FILTER
R402,R403
R404,R405
C403,C404
SM7 CTL PULSE C/D
SM6 CAP FG C/D
MS9 S CLK
MS8 S DATA
From/To 04 A/S/M (MECHACON)
CN403
7 PB FM
1 FSC
3 C SYNC
From 05 VIDEO UNIT CN502
CN404
4 LP SPECIAL
10 V PULSE
2 AUDIO FM
12 DRUM FF
1 A FF
From/To 09 AUDIO UNIT CN10
SM5 DRUM FF
SM4 INDEX
SM3 CTL CLOCK
MS7 CAP FG
To 04 A/S/M (MECHACON)
CN401
1 CTL HEAD(+)
2 CTL HEAD(−)
3 GND
To 12 AC HEAD CN1
5
4
3
2
1
A
B
C
D
E
F
G
H

3.6 VIDEO AND VIDEO UNIT BLOCK DIAGRAMS


1 0 VIDEO INTERFACE
C916 COLOR BURST
TP902
C905 DOT CLOCK
TP901
IC901
IC901,IC902,X901
ON SCREEN
IC901 VIDEO OUT
IC901 VIDEO IN
IC902
S-SEP
Q38,Q39
BUFFER
Q33–Q35
AMP
Q901,Q902
ES
PROG
Q201
TP226 Y COMB-2
EQ201
R206 Y COMB GAIN
Q205
BPF
BPF202
Q203,Q204
Q209
R231 Y COMB-3
SWD 5V
R60
D46
BB
Q21
LC1
TRAP
Q23
Q22
EE
SPCL PB
D16
R71
D17
AV2
D503
R502
SWD 5V
D501
Q502
COMP IN
From 0 7 TUNER
PAL TV IN
CN2
From 3 7 SW/JACK CN5
<FRONT INPUT>
V IN
LOGIC
SW E
SW D
SW C
SW B
SW A
IC2
IC501
IC1
C57
AGC AMP
MUTE4
SW19
SJBB
SW18
SYNC SEP 2
K P GEN
CL
PULSE GEN
SW6
SW8
SW7
SW1
SW2
SW3
SW5
MIX2
TEXT,BB
SW9
SW11
SW10
SW12
SW4
SW14
SW15
MIX1
SW20
SW13
TEXT
EE-C
PB,EE-S
LOGIC
SYNC SEP 1
PULSE GEN
SW16
PRG,BB
SW17
MUTE 3
MUTE 5
HDM NR
AGC DET
C65
R36 EE LEVEL
C71
PICTURE MUTE
R73
D59
V PULSE
IC8
< EH only >
PAL/SECAM
J101 PB COLOR
J102 REC Y
COLOR OUT
TP232
TP231
IC201
BPF201
EQ201
Q206
DL201
Y/C SEPERATOR
R234
L203
R234,L203 2H DELAY COLOR
R215
R219
R215,R219 Y COMB
Y COMB-1 TP225
Y OUT
S IN
From/To 1 0 TERMINAL (VIDEO I.)
<REAR INPUT>
MUTE
IC3
S OUT
Q9
TP210 C OUT
Q10,Q61
AV1
PERI
C OUT
Y/V OUT
V IN
AV2
C IN
From/To 0 6 TERMINAL
TP1 Y OUT
Q11
Q15
Q14
IC7
TP10 VIDEO OUT
COMP OUT
CN3
RF VIDEO OUT
To RF CONV.
Q12
FQ1
EQ
Q13
R64
J102 PB Y LEVEL
R63 S VHS PB Y LEVEL
R63
Q49
VHS
R64 VHS PB Y LEVEL
J101 REC COLOR
J102 PB Y
1
2
3
4
5
A
B
C
D
E
F
G
H

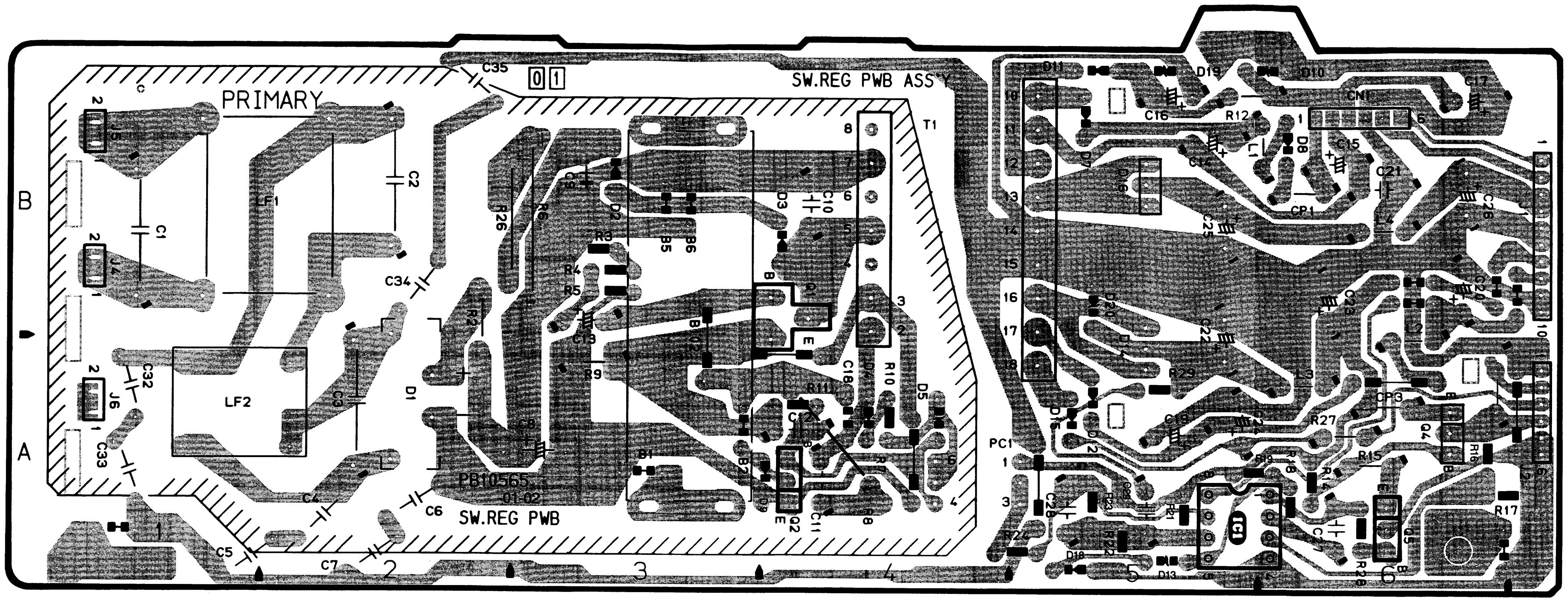

05 VIDEO UNIT
TP601
PB
SWD 5V
IC601
< EH only >
PAL/SECAM
PAL/SECAM DET
REC
ATT
SECAM
PAL
R506
R507
LC601
SECAM DET
DL501
2H DL
Q501
BUFFER
BPF501
BPF
Q504
< EH only >
BPF502
TP521
IC503
SPCL PB
VHS
ES
Q506
Q525
EQ501
EQ
LPF501
LPF
Q524
Q521
PHASE SPLITTER
L515,C543
FMA TRAP
L514,C541
H TRAP
Q520
CN501
PB COLOR
REC COLOR
From/To 43
REC AMP
CN2
Q522 < EH only >
PAL
Q404
IC402
1HDL
LPF403
R416
SUB EMP INPUT LEVEL
LPF402
Q401–Q403
AMP
R444
YNR LEVEL
Q407
Q409
TP439
C420
TP421
TP434
LPF401
S-VHS
Q411
DEEMP FILTER
R432,R453
C439,C438
C454,L412
CN401
PB COLOR
CN402
REC Y
ES
BUFFER
Q517
PILOT BLANKING
PB COL KILLER
R–Y INV
PHASE SHIFT
DET 1
DET 2
PILOT DET
DELAY'D SYNC
PULSE GEN
ATT
AGC DET
B.C C.F DRIVE AMP
VCA
PILOT ADDER PB: TH
REC LPF
B.E
REC KILLER
CHROMA VCA
BURST DET
SUB CONV
MAIN CONV
AUTO BAL
4 PHASE GEN
321Fh/320Fh VCO
REC APC PB DISCRI
APC P.D
LP REC SP
APC DET SW
2 PHASE FSC
CR DET
BURST COLOR P.D
COMP
2FH VCO
FSC GEN
CR DET
X'TAL OSC
3Fsc DET
IC501
COLOR ROT
C524
REC APC FILTER
REC/PB APC FILTER
R526,C521
C523
Q515
SPCL PB
R514
C512
C513
C529
EE
TP526
VHS
C527
TP501
TP506
VXO
COLOR DET FILTER
R533,C528
X501
CF
CF501
BUFFER
Q516
3Fsc
SPCL PB,VHS
Q408
LP
EE
S VHS NONLINEAR EMPHASIS/DEEMPHASIS
YNR
VHS
SP: TH
EP: ON
S VHS: TH
CLAMP
PB ONLY
VIDEO APT
DETAIL ENHANCER
VHS: ON
S VHS: TH
IC401
S VHS CAR/DEV & W/D CLIP
VHS CAR/DEV & W/D CLIP
FREQ MOD
LEVEL ADJ
HPF
MAIN EMP
CAR INT
DOC
SW5
SW3
SW6
SW8
SW14
SW4
SW2
SW1
SW12
SW13
ANR
VHS: ON
S VHS: OFF
SYNC EXP
SUB LPF
FREQ DEMOD
DOUBLE LIMITER
NLN EMP/DE EMP
VHS: ON
S VHS: TH
AGC DET
SUB CLAMP
SYNC SEP
DEEMP & MUTE
DOC DET
TH: THROUGH
LOGIC
EDIT
REC/PB
1H DL: M
CN504
REC FM
PB FM
From/To 43
REC AMP
CN3
C433
SWD 5V
COL ROT
C438
D407
SP
R419
YNR PULSE
V APT CTL
R422
SWD 5V
R423
D404
EE
ES
PAL
Q412
< EH only >
SYNC OUT
IC404
ADJUST CONTROL
IC406
VHS
DEEMP FILTER
R428,R429,R430
C429,C430,C431
L410,L411
Q413
S-VHS
CN401
REC COLOR
CN402
PB Y
I
J
K
L
M
N
O
P

3.7 SWITCHING REGULATOR, REGULATOR (1) AND (2) SCHEMATIC DIAGRAMS

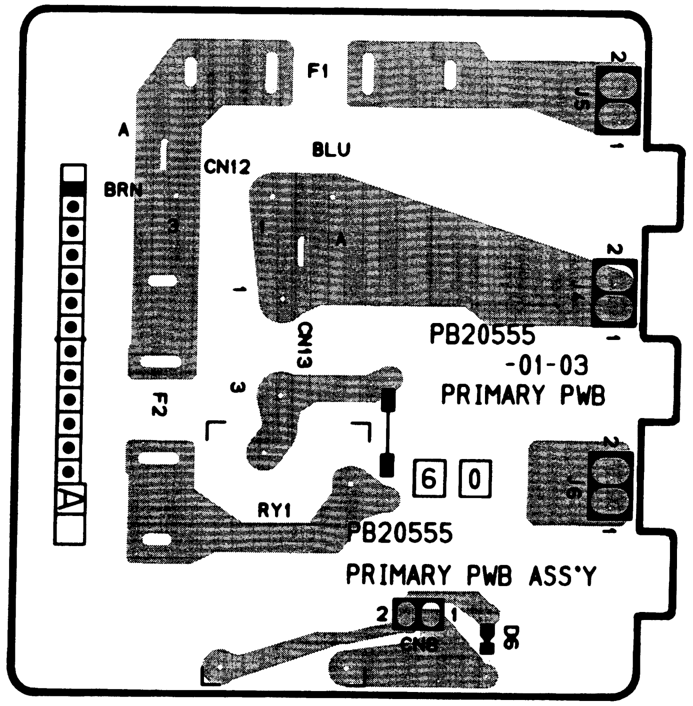


5
4
3
2
1
A
B
C
D
E
F
G
H
60 PRIMARY
01 SW REG
02 REGULATOR(1)
18 REGULATOR(2)
GRAUND POINT FOR SECONDARY VOLTAGE
IC1 LM358P
CN1
DC 4.4V ⊕
DC 4.4V ⊖
-30V
GND
SWD 5V
From/To 04 A/S/M (MECHACON) CN614 (Page 3-21)
CN9
SWD 12V
GND
TP4 SW 5V
CN6
SWD 5V
GND
SWD 12V
To 43 REC AMP CN5 (Page 3-47)
CN4
UNSW 5V
45V
UNSW 12V
GND
From/To 28 SW/DISPLAY CN8 (Page 3-54)
UNSW 5V
GND
GND
SWD 5V
P.CTL
UNSW 12V
45V
CN2
UNSW 5.8V
GND
UNSW 12V
SWD 5V
GND
To 09 AUDIO UNIT CN4 (Page 3-25)
CN3
MOTOR 13V
GND(M)
GND(M)
MOTOR 17V
GND
SWD 5V
POWER ON/OFF
UNSW 5.8V
UNSW 12V
From/To 04 MECHACON (A/S/M) CN605 (Page 3-22)
CN5
SWD 5V
SWD 12V
GND
UNSW 12V
UNSW 5V
To 10 VIDEO INTERFACE CN1 (Page 3-34)
J1
SWD 5V
7V
7V
GND
GND
MOTOR 13V
MOTOR 17V
GND(M)
GND(M)
J2
GND
12V
BT2
12V
GND
GND
Q35 2SB1068(KU)
Q34 2SD1855(EF)
Q36 2SD1758
Q31 2SD2159(UV)
Q32 2SB1068(KU)
IC2 LM358P
Q4 2SB941P
Q5 2SA1515(QR)
Q1 2SC4304-LF619
Q2 2SC3618 (NLK)
D1 RB-156LFB
D7 AK04
D8 AK04
D11 AU01Z
D12 11EFS2
D14 FML-12S
D16 FMB-24
D15 AU01Z
D19 RD33EB-T1B4
D10 MTZJ33AT-77
D13 1SS133
D18 MTZJ6.2A
D35 UZS18SC
L1 10
L2 33
L3 33
L4 33
C14 100/10
C15 100/6.3
C16 33/50
C17 33/35
C19 220/25
C20 220/25
C22 1500/16
C23 2200/16
C25 1200/10
C26 2200/10
C24 33/63
C28 0.022
C21 0.01
C27 0.001
C29 0.1
C8 100/400
C9 0.0047/1K
C10 100P/1KV
C11 0.22/50
C12 0.0068/50
C13 1/50
C18 270P/50
C41 100/6.3
C42 100/6.3
C43 100/16
C44 100/16
C45 0.01
C46 100/16
C47 100/16
C48 0.001
C49 100/10
R3 180K
R4 180K
R5 56K
R6 68K 2W
R7 560 2W
R8 330
R9 0.33 1W
R10 1.2K
R11 470
R14 10K
R16 8.45K
R17 9.76K
R18 330
R19 2.2K
R21 9.76K
R22 10K
R23 402K
R24 470
R26 30K
R29 2.2K
R31 1K
R32 470
R33 1K
R35 2.2K
R36 SWD 5V
R37 12K
R38 1K
R39 1.1K
R40 10K
R41 2.2K
R43 2.7K
R44 10K
R45 7.5K
R46 10K
R47 6.8K
OMF

3.8 SWITCHING REGULATOR, REGULATOR (1), (2) AND PRIMARY CIRCUIT BOARDS

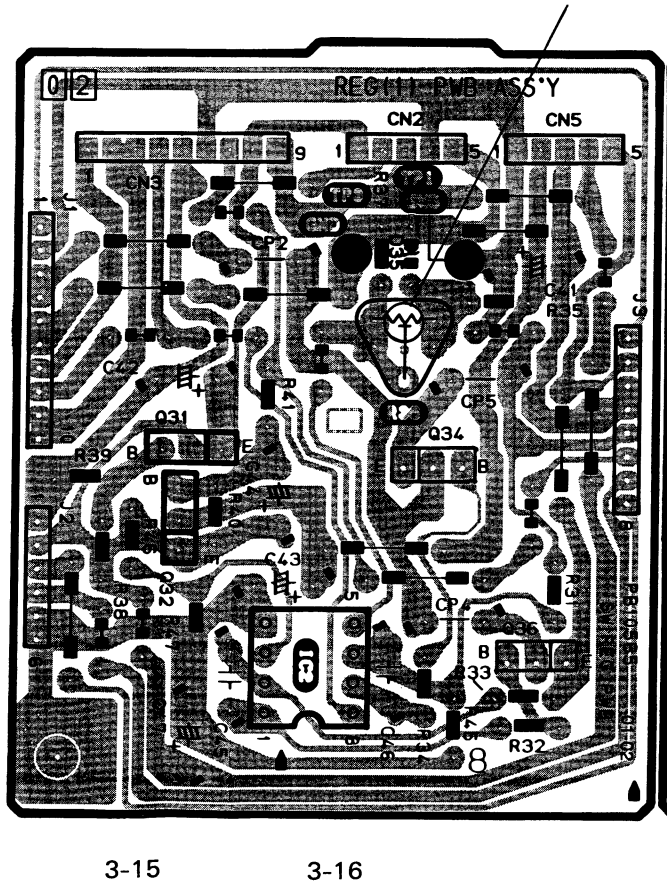

PRIMARY
SW.REG PWB ASS'Y
0 1
PB10565
-01-02
SW.REG PWB
LF1
LF2
T1
C35
C34
C2
C1
J5
J4
J6
C32
C33
C3
D1
C4
C5
C6
C7
R26
R3
R4
R5
R9
D3
C10
Q1
IC1
Q2
Q3
Q4
Q5
CN1
CP1
CP3
PC1
D11
D10
D19
C16
C17
R12
C15
C21
C25
C26
C23
C24
C22
R29
R27
R15
R16
R17
R28
A
B
1
2
3
4
5
6

— PRIMARY —

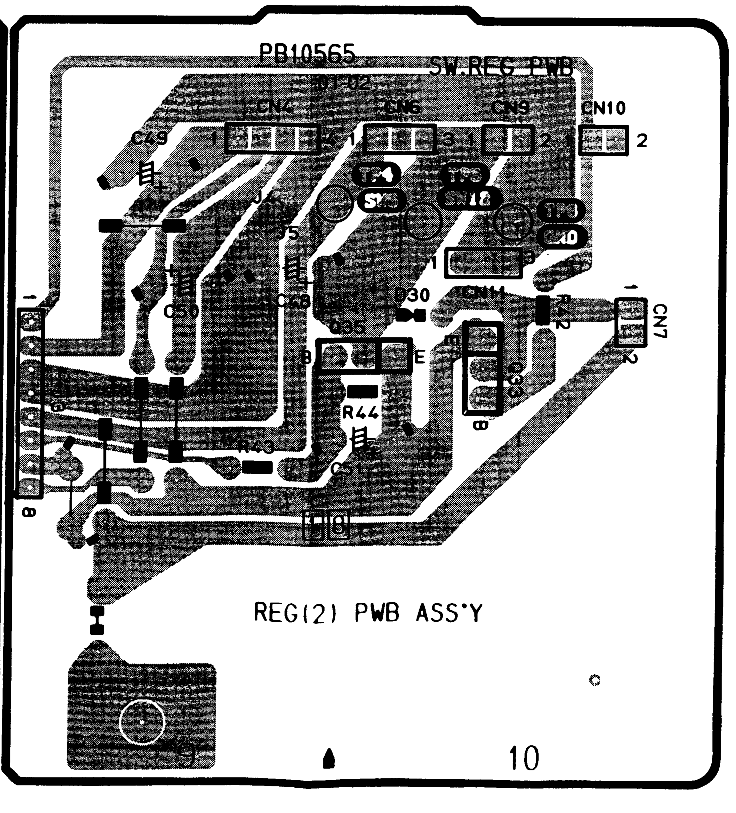

F1
F2
J3
J1
J6
A
BLU
BRN
CN12
CN13
CN6
D6
RY1
PB20555
-01-03
PRIMARY PWB
6 0
PB20555
PRIMARY PWB ASS'Y
A

— REG. (1) —

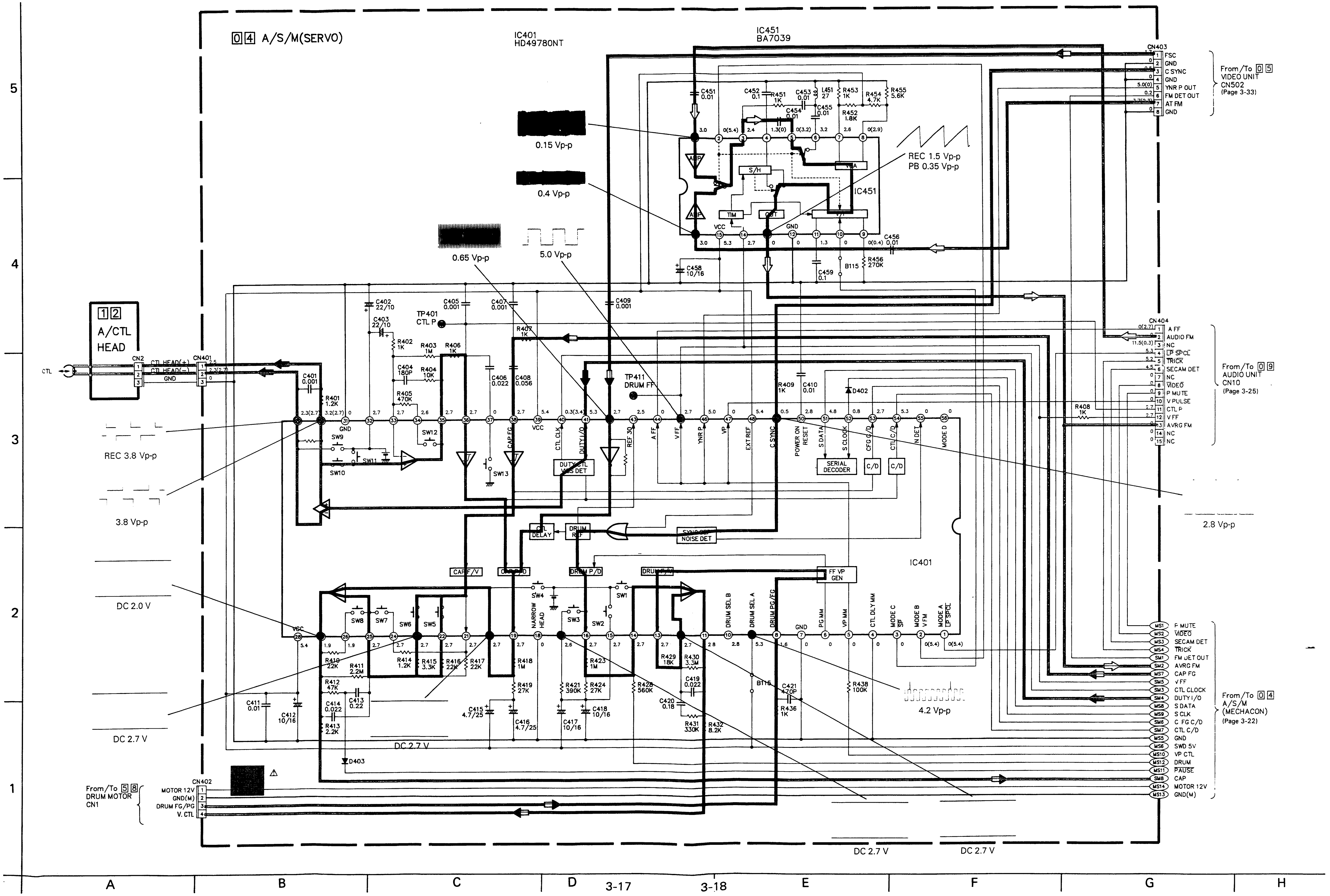
R36
SWD5V


0 2
REG(1) PWB ASS'Y
CN2
CN5
CN3
CP2
Q31
Q32
Q33
Q34
Q38
C43
CP4
CP5
IC3
R31
R32
R38
R39
J9
7
8

— REG. (2) —

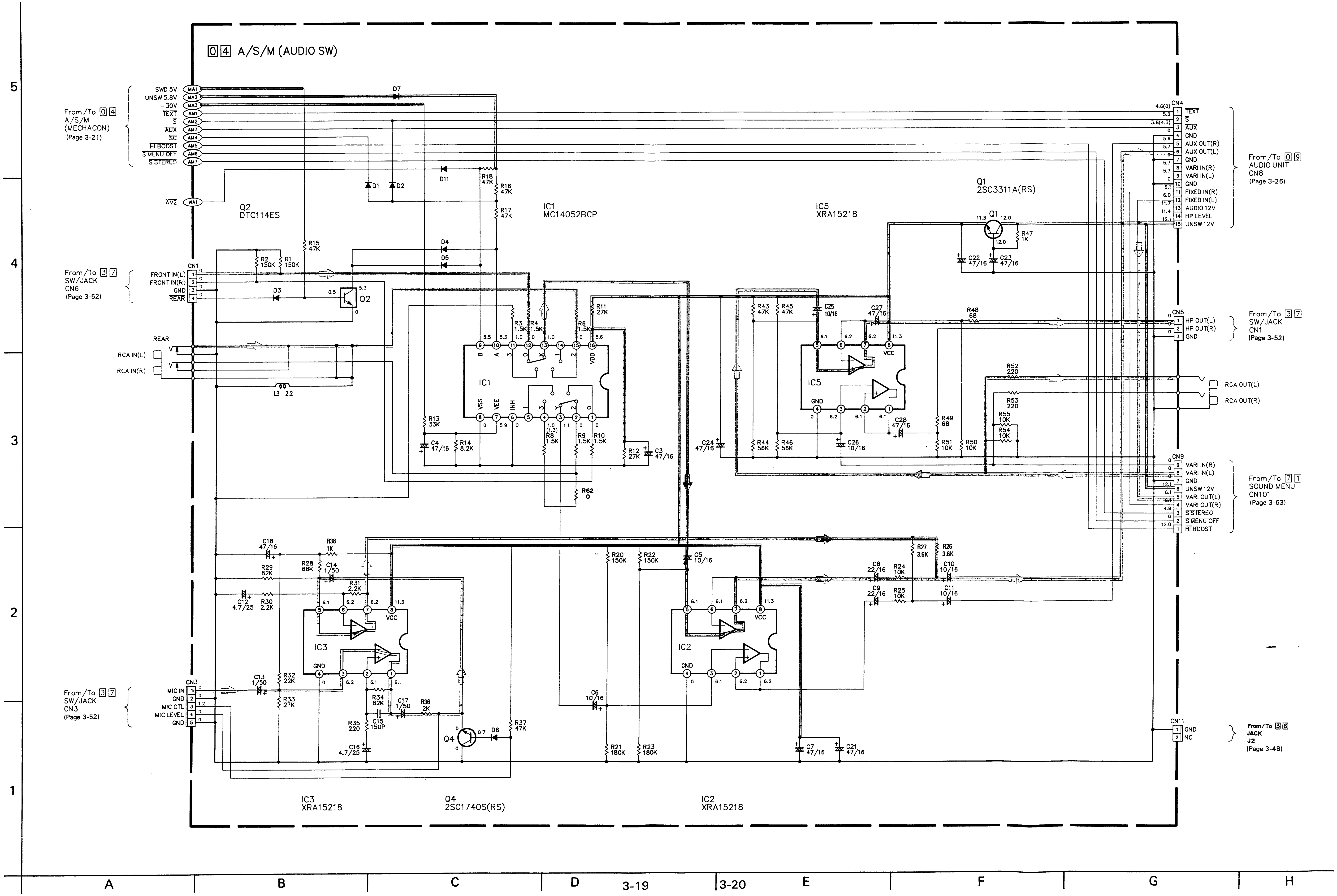

PB10565
SW.REG PWB
-01-02
CN4
CN6
CN9
CN10
CN11
CN7
C49
C50
Q30
Q35
Q36
R42
R43
R44
1 0
REG(2) PWB ASS'Y
10

3.9 SERVO SCHEMATIC DIAGRAM



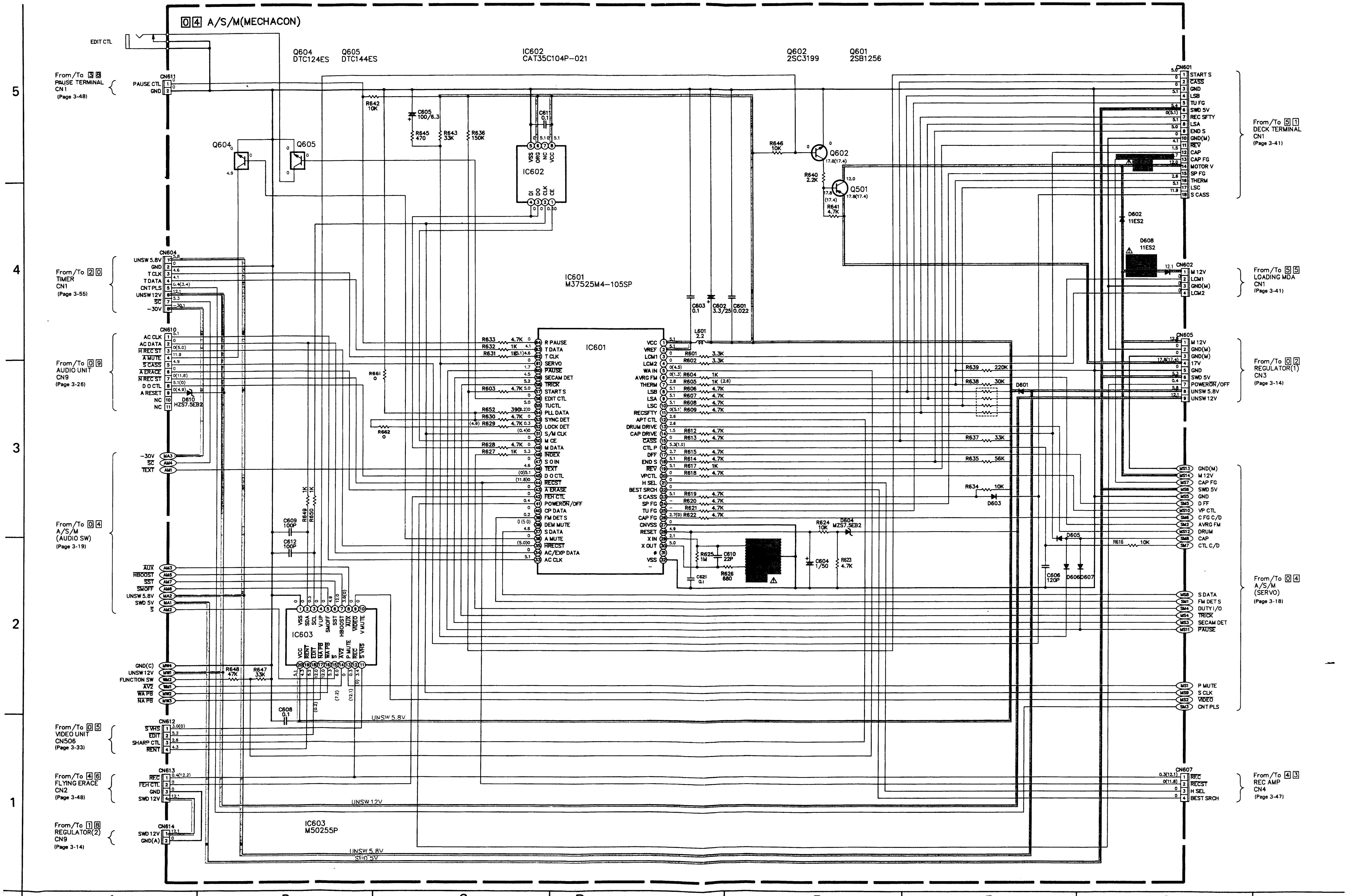
04 A/S/M(SERVO)
IC401
HD49780NT
IC451
BA7039
0.15 Vp-p
0.4 Vp-p
0.65 Vp-p
5.0 Vp-p
REC 1.5 Vp-p
PB 0.35 Vp-p
REC 3.8 Vp-p
3.8 Vp-p
2.8 Vp-p
DC 2.0 V
DC 2.7 V
4.2 Vp-p
12 A/CTL HEAD
CTL
CN2
CN401
CTL HEAD(+)
CTL HEAD(-)
GND
TP401 CTL P
TP411 DRUM FF
S/H
TIM
OUT
VCA
AMP
VCC
GND
CTL CLK
DUTY I/O
REF 30
A FF
V FF
YNR P
VP
EXT REF
C SYNC
POWER ON RESET
S DATA
S CLOCK
CFG C/D
CTL C/D
N DET
MODE D
DUTY CTL VSS DET
SERIAL DECODER
C/D
CTL DELAY
DRUM REF
SYNC SEP NOISE DET
CAP F/V
CAP P/D
DRUM P/D
DRUM F/V
FF VP GEN
NARROW HEAD
DRUM SEL B
DRUM SEL A
DRUM PG/FG
PG MM
VP MM
CTL DLY MM
MODE C SP
MODE B VFM
MODE A LP SPCL
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
SW9
SW10
SW11
SW12
SW13
D402
D403
B115
CN403
FSC
GND
C SYNC
GND
YNR P OUT
FM DET OUT
AT FM
GND
From/To 05
VIDEO UNIT
CN502
(Page 3-33)
CN404
A FF
AUDIO FM
NC
LP SPCL
TRICK
SECAM DET
NC
VIDEO
P MUTE
V PULSE
CTL P
V FF
AVRG FM
NC
NC
From/To 09
AUDIO UNIT
CN10
(Page 3-25)
F MUTE
VIDEO
SECAM DET
TRICK
FM DET OUT
AVRG FM
CAP FG
V FF
CTL CLOCK
DUTY I/O
S DATA
S CLK
C FG C/D
CTL C/D
GND
SWD 5V
VP CTL
DRUM
PAUSE
CAP
MOTOR 12V
GND(M)
From/To 04
A/S/M
(MECHACON)
(Page 3-22)
CN402
MOTOR 12V
GND(M)
DRUM FG/PG
V. CTL
From/To 58
DRUM MOTOR
CN1
5
4
3
2
1
A
B
C
D
E
F
G
H

3.10 AUDIO SW SCHEMATIC DIAGRAM

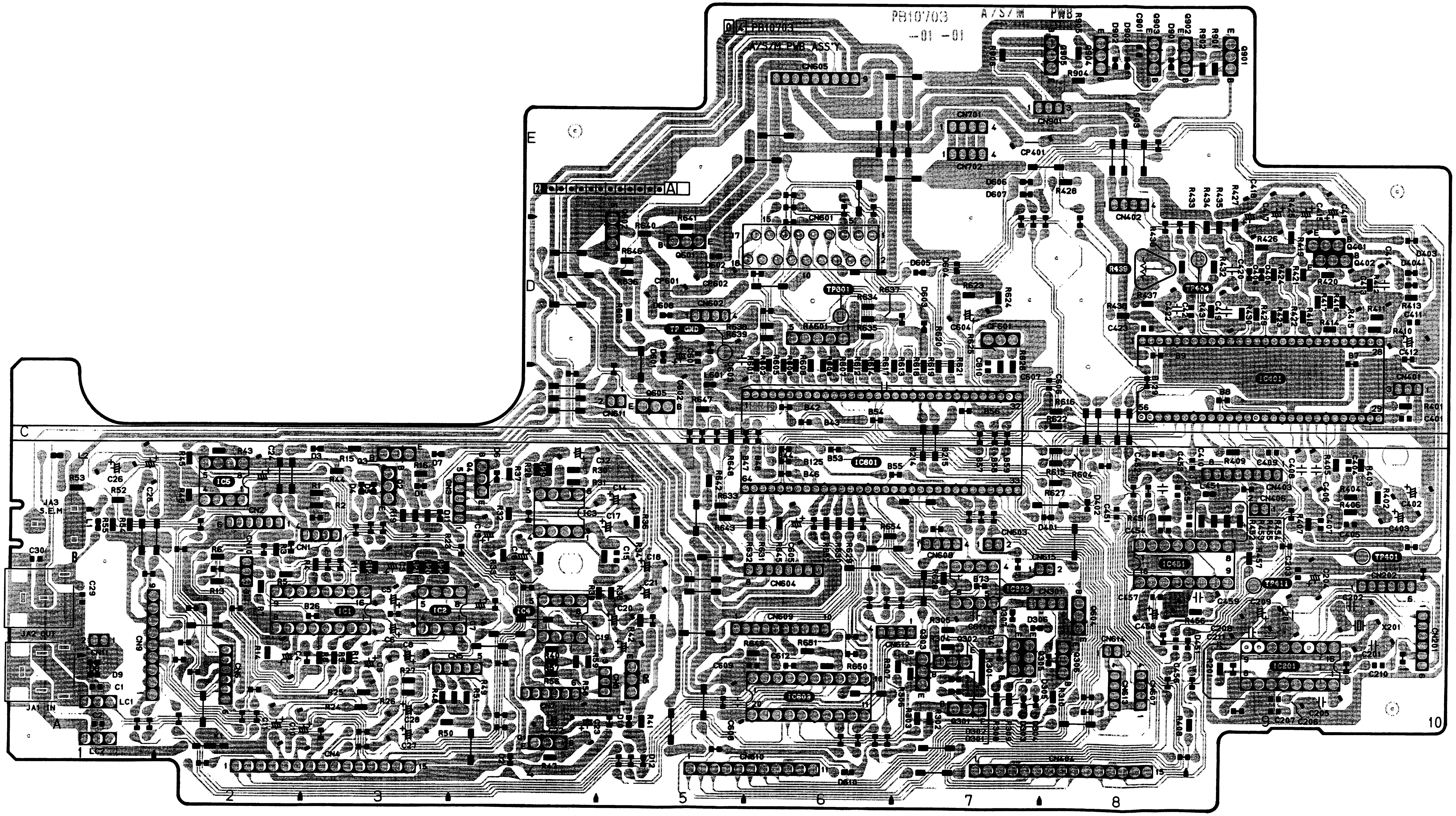


04 A/S/M (AUDIO SW)
From/To 04 A/S/M (MECHACON) (Page 3-21)
SWD 5V MA1
UNSW 5.8V MA2
−30V MA3
TEXT AM1
S AM2
AUX AM3
SC AM4
HI BOOST AM5
S MENU OFF AM6
S STEREO AM7
AV2 WA1
D7
D1
D2
D11
R18 47K
R16 47K
R17 47K
Q2 DTC114ES
IC1 MC14052BCP
IC5 XRA15218
Q1 2SC3311A(RS)
R47 1K
C22 47/16
C23 47/16
R15 47K
D4
D5
D3
From/To 37 SW/JACK CN6 (Page 3-52)
CN1
FRONT IN(L)
FRONT IN(R)
GND
REAR
R2 150K
R1 150K
REAR
RCA IN(L)
RCA IN(R)
L3 2.2
R3 1.5K
R4 1.5K
R6 1.5K
R11 27K
IC1
R13 33K
C4 47/16
R14 8.2K
R8 1.5K
R9 1.5K
R10 1.5K
R12 27K
C3 47/16
R62 0
R43 47K
R45 47K
C25 10/16
C27 47/16
R48 68
IC5
VCC
GND
R52 220
R53 220
R55 10K
R54 10K
R49 68
R44 56K
R46 56K
C26 10/16
C28 47/16
R51 10K
R50 10K
C24 47/16
From/To 09 AUDIO UNIT CN8 (Page 3-26)
CN4
TEXT
S
AUX
GND
AUX OUT(R)
AUX OUT(L)
GND
VARI IN(R)
VARI IN(L)
GND
FIXED IN(R)
FIXED IN(L)
AUDIO 12V
HP LEVEL
UNSW 12V
From/To 37 SW/JACK CN1 (Page 3-52)
CN5
HP OUT(L)
HP OUT(R)
GND
RCA OUT(L)
RCA OUT(R)
From/To 71 SOUND MENU CN101 (Page 3-63)
CN9
VARI IN(R)
VARI IN(L)
GND
UNSW 12V
VARI OUT(L)
VARI OUT(R)
S STEREO
S MENU OFF
HI BOOST
C18 47/16
R38 1K
R29 82K
R28 68K
C14 1/50
R31 2.2K
C12 4.7/25
R30 2.2K
IC3
VCC
GND
C13 1/50
R32 22K
R33 27K
R34 82K
C17 1/50
R36 2K
C15 150P
R35 220
C16 4.7/25
Q4
D6
R37 47K
From/To 37 SW/JACK CN3 (Page 3-52)
CN3
MIC IN
GND
MIC CTL
MIC LEVEL
GND
R20 150K
R22 150K
C5 10/16
C6 10/16
R21 180K
R23 180K
IC2
VCC
GND
R27 3.6K
R26 3.6K
C8 22/16
R24 10K
C10 10/16
C9 22/16
R25 10K
C11 10/16
C7 47/16
C21 47/16
CN11
GND
NC
From/To 36 JACK J2 (Page 3-48)
IC3 XRA15218
Q4 2SC1740S(RS)
IC2 XRA15218
5
4
3
2
1
A
B
C
D
E
F
G
H

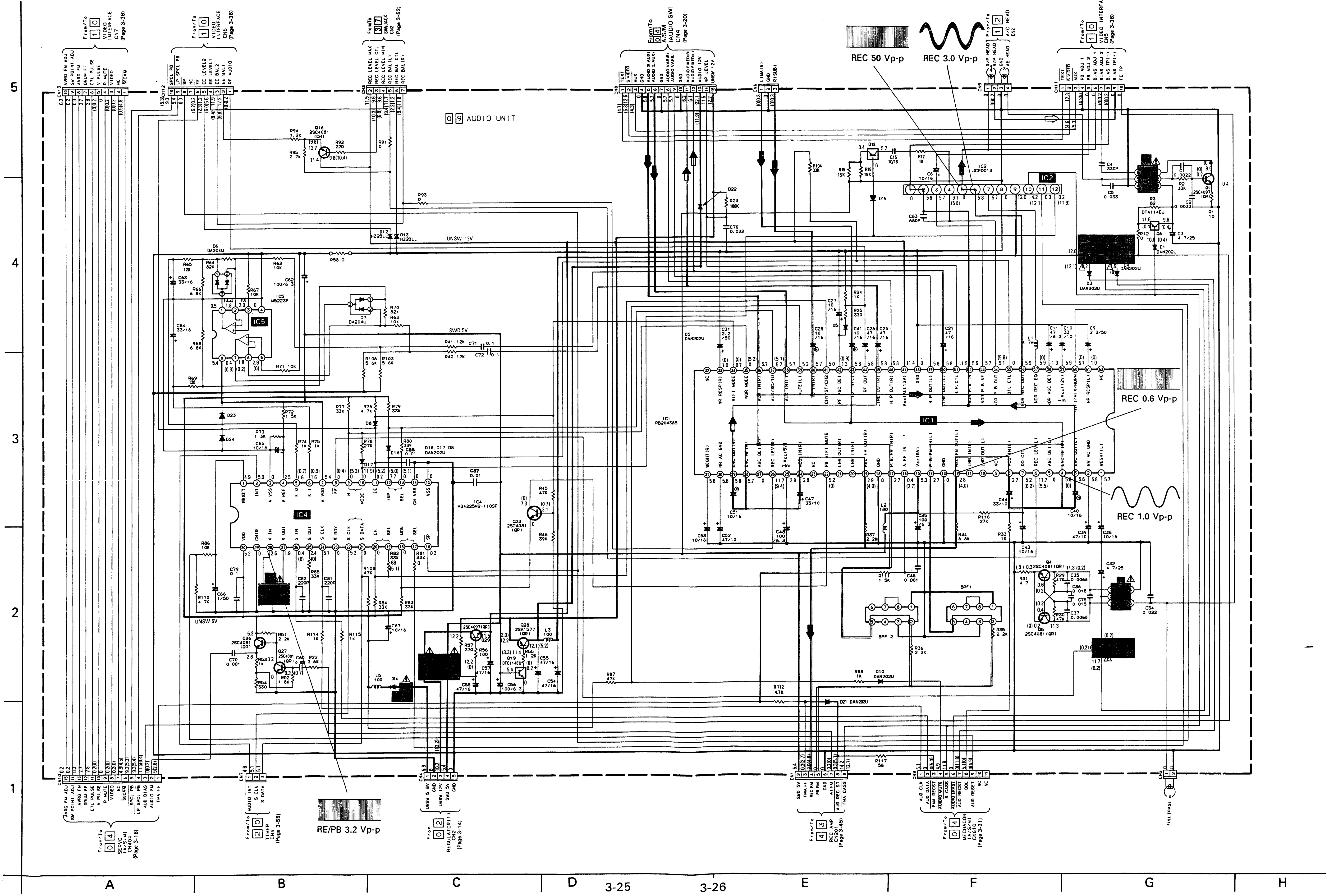
3.11 MECHACON SCHEMATIC DIAGRAM


04 A/S/M(MECHACON)
EDIT CTL
From/To 38 PAUSE TERMINAL CN1 (Page 3-48)
PAUSE CTL
GND
CN611
Q604 DTC124ES
Q605 DTC144ES
IC602 CAT35C104P-021
Q602 2SC3199
Q601 2SB1256
R642 10K
C605 100/6.3
R645 470
R643 33K
R636 150K
C611 0.1
IC602
R646 10K
Q602
R640 2.2K
Q501
R641 4.7K
From/To 20 TIMER CN1 (Page 3-55)
CN604
UNSW 5.8V
GND
T CLK
T DATA
CNT PLS
UNSW 12V
SC
-30V
IC601 M37525M4-105SP
C603 0.1
C602 3.3/25
C601 0.022
L601 2.2
From/To 09 AUDIO UNIT CN9 (Page 3-26)
CN610
AC CLK
AC DATA
H REC ST
A MUTE
S CASS
A ERACE
N REC ST
D O CTL
A RESET
NC
D610 HZS7.5EB2
IC601
R PAUSE
T DATA
T CLK
SERVO
PAUSE
SECAM DET
TRICK
START S
EDIT CTL
TU CTL
PLL DATA
SYNC DET
LOCK DET
S/M CLK
M CE
M DATA
INDEX
S O IN
TEXT
D O CTL
RECST
A ERASE
FEH CTL
POWERON/OFF
CP DATA
FM DET S
DEM MUTE
S DATA
A MUTE
HRECST
AC/EXP DATA
AC CLK
VCC
VREF
LCM1
LCM2
WA IN
AVRG FM
THERM
LSB
LSA
LSC
RECSFTY
APT CTL
DRUM DRIVE
CAP DRIVE
CASS
CTL P
DFF
END S
REV
VPCTL
H SEL
BEST SRCH
S CASS
SP FG
TU FG
CAP FG
CNVSS
RESET
X IN
X OUT
VSS
R661
R662
C609 100P
C612 100P
R649 1K
R650 1K
R624 10K
D604 MZS7.5EB2
R625 1M
C610 22P
R626 680
C621 0.1
C604 1/50
R623 4.7K
From/To 04 A/S/M (AUDIO SW) (Page 3-19)
-30V
SC
TEXT
AUX
HBOOST
SST
SMOFF
UNSW 5.8V
SWD 5V
S
IC603
VSS SDA SCL VUP SMOFF SST HBOOST AUX VIDEO V MUTE
VCC RENT EDIT WA PB WA PB AV2 P MUTE REC S VHS
GND(C)
UNSW 12V
FUNCTION SW
AV2
WA PB
NA PB
R648 47K
R647 3.3K
C608 0.1
UNSW 5.8V
From/To 05 VIDEO UNIT CN506 (Page 3-33)
CN612
S VHS
EDIT
SHARP CTL
RENT
From/To 46 FLYING ERACE CN2 (Page 3-48)
CN613
REC
FEH CTL
GND
SWD 12V
UNSW 12V
From/To 18 REGULATOR(2) CN9 (Page 3-14)
CN614
SWD 12V
GND(A)
IC603 M50255P
UNSW 5.8V
SWD 5V
CN601
START S
CASS
GND
LSB
TU FG
SWD 5V
REC SFTY
LSA
END S
GND(M)
REV
CAP
CAP FG
MOTOR V
SP FG
THERM
LSC
S CASS
From/To 51 DECK TERMINAL CN1 (Page 3-41)
D602 11ES2
D608 11ES2
CN602
M 12V
LCM1
GND(M)
LCM2
From/To 55 LOADING MDA CN1 (Page 3-41)
CN605
M 12V
GND(M)
GND(M)
17V
GND
SWD 5V
POWERON/OFF
UNSW 5.8V
UNSW 12V
From/To 02 REGULATOR(1) CN3 (Page 3-14)
R639 220K
R638 30K
D601
R637 33K
R635 56K
R634 10K
D603
D605
R616 10K
C606 120P
D606
D607
GND(M)
M 12V
CAP FG
SWD 5V
GND
D FF
VP CTL
C FG C/D
AVRG FM
DRUM
CAP
CTL C/D
S DATA
FM DET S
DUTY I/O
TRICK
SECAM DET
PAUSE
From/To 04 A/S/M (SERVO) (Page 3-18)
P MUTE
S CLK
VIDEO
CNT PLS
CN607
REC
RECST
H SEL
BEST SRCH
From/To 43 REC AMP CN4 (Page 3-47)
A B C D E F G H
1 2 3 4 5

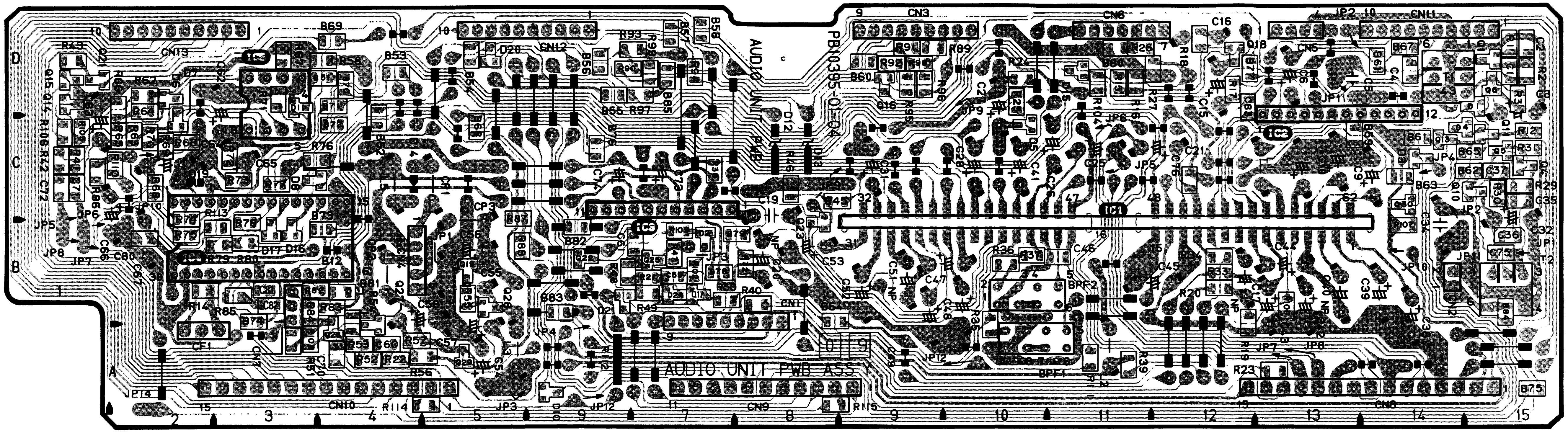
3.12 AUDIO/SERVO/MECHACON (A/S/M) CIRCUIT BOARD


PB10703 A/S/M PWB
-01 -01
A/S/M PWB ASS'Y
CN605
CN701
CN702
CN601
CN602
CN402
CN401
CN604
CN609
CN610
CN603
CN202
CN201
CN1
CN2
CN4
CN5
CN9
IC401
IC601
IC602
IC301
IC302
IC451
IC1
IC2
IC5
IC6
TP601
TP GND
TP401
TP451
TP404
X201
JA1 IN
JA2 OUT
JA3 S.E.M.
A
B
C
D
E
1
2
3
4
5
6
7
8
9
10

3.13 AUDIO UNIT SCHEMATIC DIAGRAM

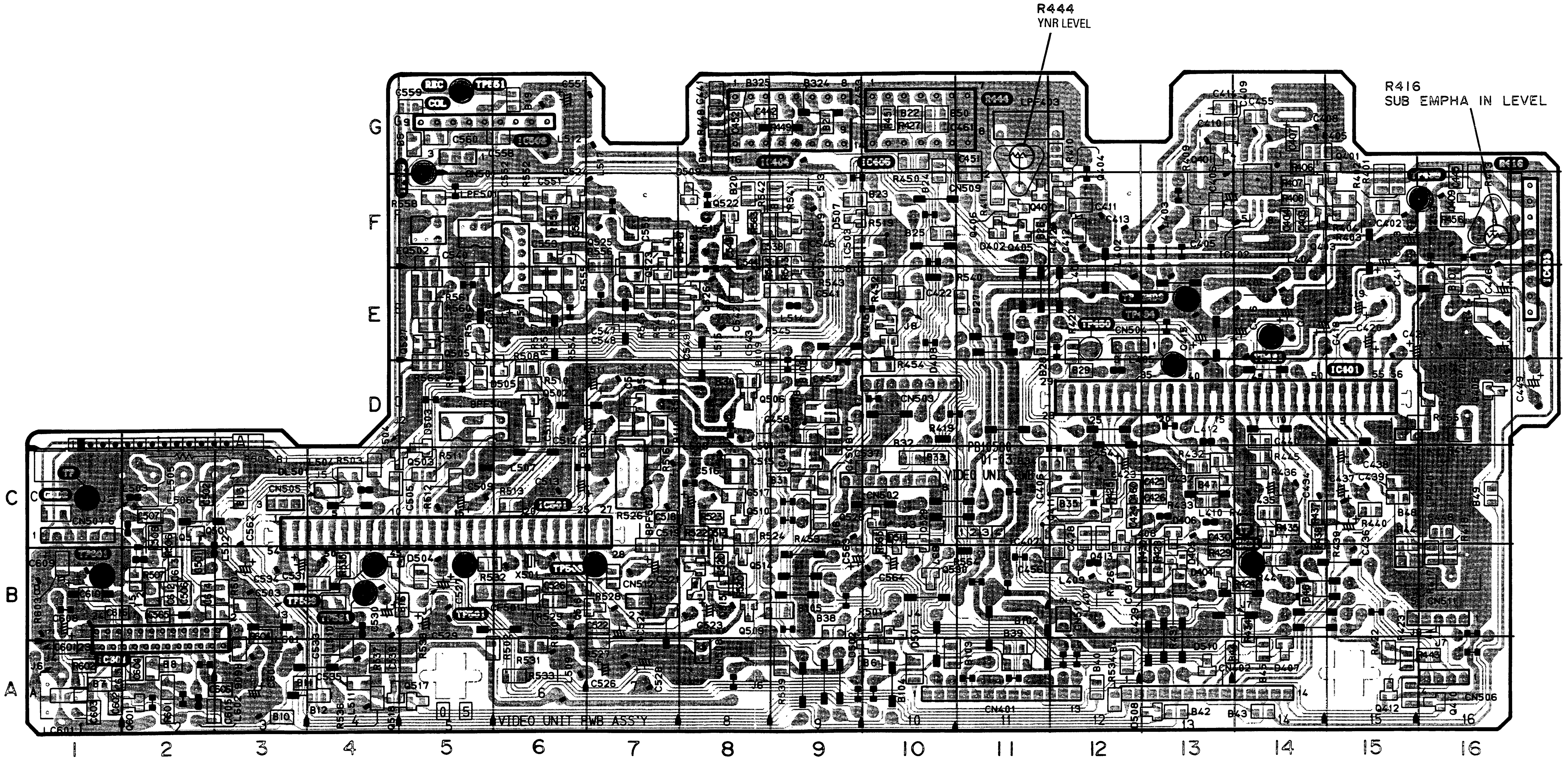

09 AUDIO UNIT
REC 50 Vp-p
REC 3.0 Vp-p
REC 0.6 Vp-p
REC 1.0 Vp-p
RE/PB 3.2 Vp-p
IC1
IC2
IC4
IC5
JCP0013
M5223P
M34225M2-110SP
UNSW 12V
SWD 5V
UNSW 5V
BPF1
BPF 2
From/To 10 VIDEO INTERFACE CN7 (Page 3-38)
From/To 10 VIDEO INTERFACE CN6 (Page 3-38)
From/To 317 SW/JACK CN2 (Page 3-52)
From/To 04 A/S/M (AUDIO SW) CN4 (Page 3-20)
From/To 12 A/C HEAD CN2
From/To 10 VIDEO INTERFACE CN5 (Page 3-38)
From/To 04 SERVO (A/S/M) CN404 (Page 3-18)
From/To 20 TIMER CN4 (Page 3-55)
From 02 REGULATOR(1) CN2 (Page 3-14)
From/To 43 REC AMP CN201 (Page 3-45)
From/To 04 MECHACON (A/S/M) CN610 (Page 3-21)
FULL ERASE
1
2
3
4
5
A
B
C
D
E
F
G
H

3.14 AUDIO UNIT CIRCUIT BOARD



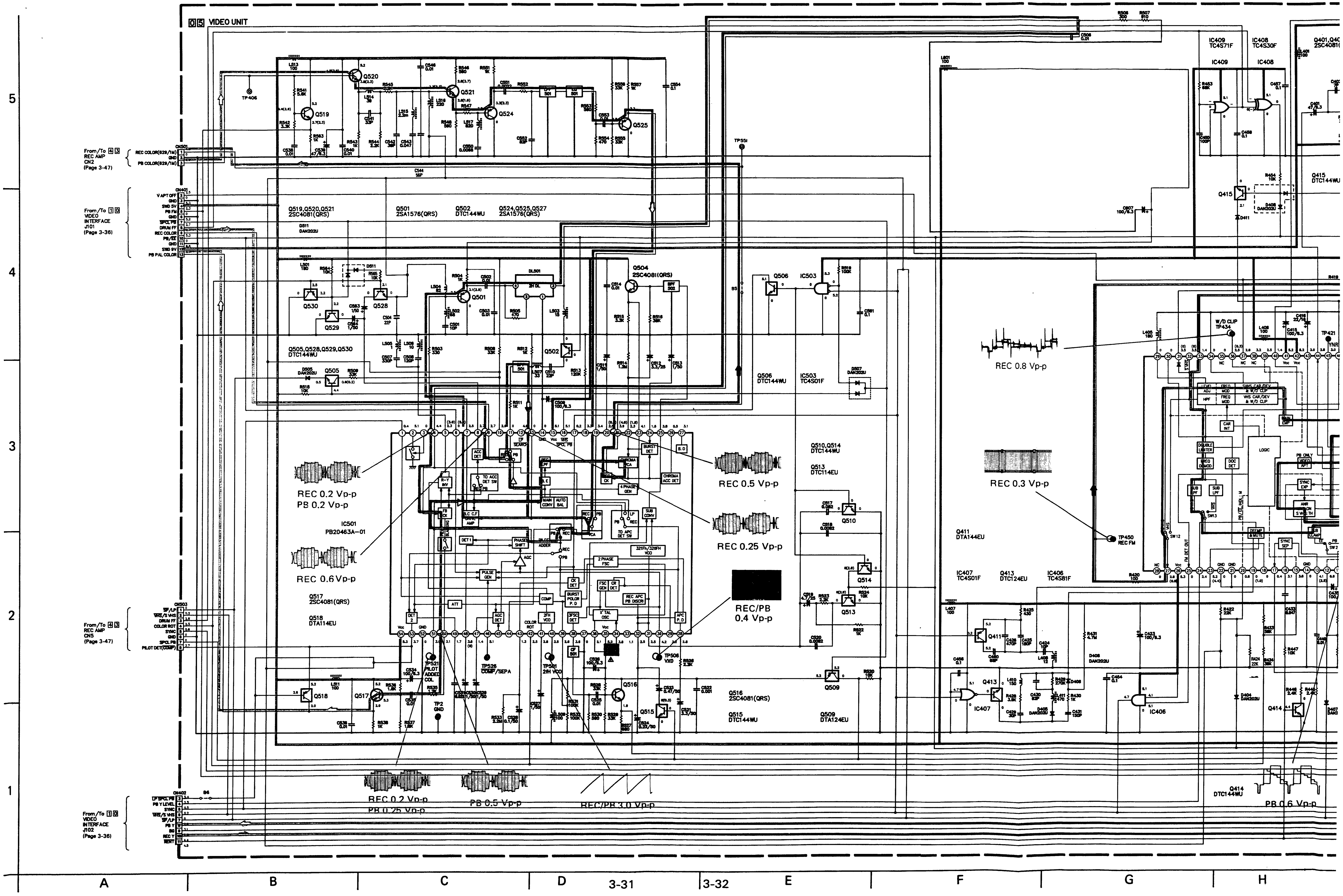
REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION
TRANSISTOR		DIODE		RESISTOR_		RESISTOR		RESISTOR		CAPACITOR		CAPACITOR	
Q1	D-15	D1	C-15	R1	D-15	R47	B-7	R84	A-4	C1	D-15	C47	B-10
Q4	C-15	D2	B-7	R2	D-15	R48	B-7	R85	A-3	C2	D-15	C48	A-10
Q5	C-15	D3	C-14	R3	C-15	R49	A-7	R86	C-2	C3	C-15	C49	A-10
Q6	C-15	D4	C-15	R12	C-15	R50	A-8	R87	B-6	C4	D-14	C51	A-9
Q10	B-15	D5	C-10	R14	B-3	R51	A-4	R88	B-6	C5	C-14	C52	A-9
Q11	C-15	D6	C-2	R15	D-11	R52	A-4	R89	D-10	C6	D-13	C53	B-8
Q13	C-14	D7	C-2	R16	D-11	R53	A-4	R90	D-7	C9	C-14	C54	A-5
Q14	C-1	D8	C-4	R18	D-12	R54	A-4	R91	D-9	C10	C-13	C55	B-5
Q15	D-1	D10	A-6	R19	A-13	R55	A-5	R92	D-9	C11	C-13	C56	B-5
Q16	C-9	D11	C-3	R20	B-12	R56	A-5	R93	D-7	C15	D-12	C57	A-5
Q17	A-7	D12	C-8	R21	B-7	R57	A-5	R94	D-7	C16	D-12	C58	A-5
Q18	D-12	D13	C-8	R22	A-4	R58	D-4	R95	C-9	C17	A-13	C59	B-7
Q19	B-5	D14	C-5	R23	A-13	R62	C-2	R96	C-9	C19	B-8	C60	A-4
Q21	D-2	D15	D-11	R24	D-10	R63	C-2	R97	C-7	C20	B-8	C61	B-7
Q22	B-6	D16	B-3	R25	C-10	R64	C-2	R98	D-9	C21	C-12	C62	C-3
Q23	B-8	D17	B-3	R26	D-12	R65	C-2	R99	D-7	C25	C-11	C63	C-2
Q24	A-7	D19	C-2	R27	D-12	R66	C-2	R100	A-13	C26	C-11	C64	C-2
Q25	B-7	D20	D-5	R29	C-15	R67	D-3	R102	B-7	C27	C-10	C65	C-3
Q26	A-4	D21	A-7	R30	B-15	R68	C-2	R103	C-1	C28	C-10	C66	B-2
Q27	A-4			R31	C-15	R69	C-2	R104	D-11	C31	C-9	C67	B-2
Q28	A-5			R32	B-8	R70	C-2	R106	C-1	C32	B-15	C70	A-4
Q29	A-5			R33	B-12	R71	C-3	R107	B-14	C34	B-14	C71	C-1
Q30	B-14			R34	B-12	R72	C-3	R108	A-3	C35	B-15	C72	C-1
				R35	A-10	R73	C-3	R109	B-7	C36	B-15	C73	C-7
				R36	B-10	R74	B-2	R110	C-2	C37	C-15	C74	C-7
				R37	B-10	R75	B-2	R111	A-11	C38	A-14	C75	B-15
				R38	C-7	R76	C-4	R112	A-7	C39	A-14	C76	C-12
				R39	A-11	R77	C-3	R113	B-3	C40	A-13	C80	B-2
				R40	A-8	R78	B-3	R114	A-5	C41	C-10	C81	B-3
				R41	C-1	R79	B-3	R115	A-9	C42	A-13	C82	A-3
				R42	C-1	R80	B-3			C43	A-13	C83	C-13
				R43	D-1	R81	B-4			C44	B-13		
				R45	B-9	R82	B-4			C45	B-12		
				R46	B-8	R83	A-4			C46	B-11		

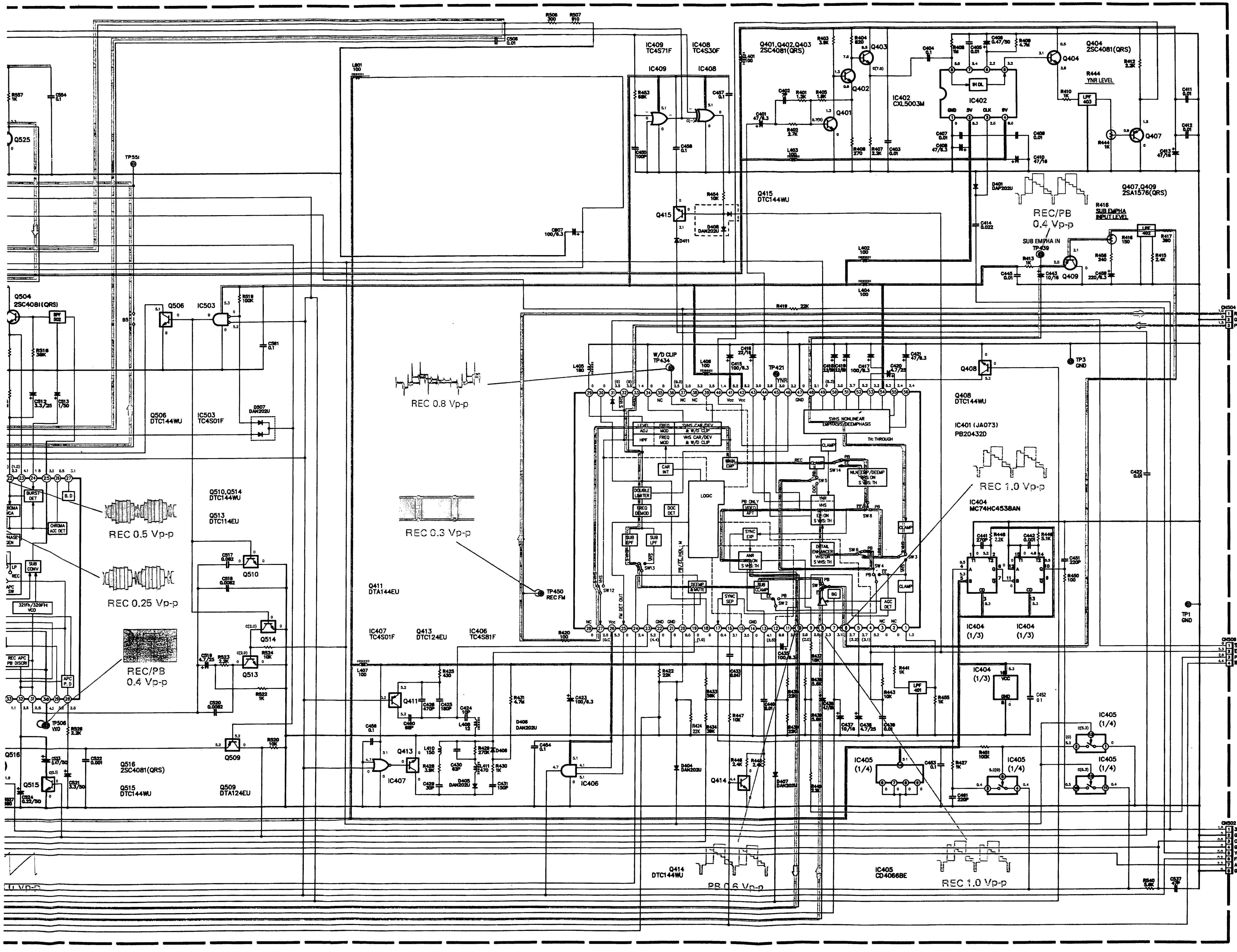
3.15 VIDEO UNIT CIRCUIT BOARD



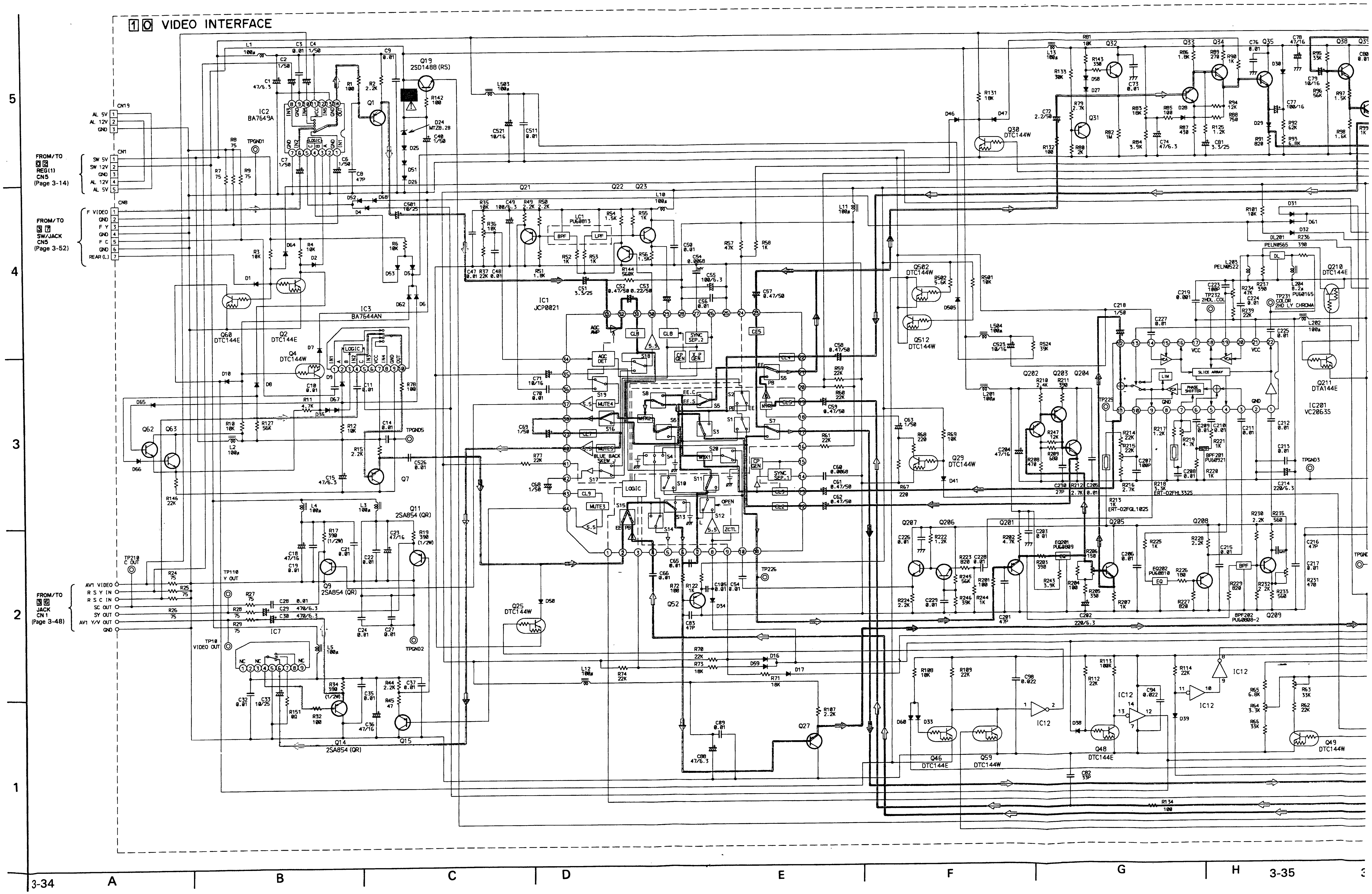
REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION
TRANSISTOR		TRANSISTOR		DIODE		RESISTOR		RESISTOR		RESISTOR		RESISTOR		RESISTOR		CAPACITOR		CAPACITOR		CAPACITOR		CAPACITOR		CAPACITOR	
Q401	F-14	Q518	A-4	D401	G-13	R401	F-15	R431	B-13	R505	C-2	R536	A-4	R602	A-1	C401	E-14	C431	B-12	C461	G-10	C530	B-4	C560	G-5
Q402	F-14	Q519	F-9	D402	F-11	R402	F-15	R432	C-13	R506	B-2	R537	A-4	R603	B-1	C402	F-15	C432	C-13	C501	B-2	C531	B-3	C561	E-9
Q403	F-14	Q520	F-9	D404	B-13	R403	F-14	R433	C-13	R507	B-1	R538	A-4	R604	B-3	C403	F-14	C433	C-13	C502	B-2	C532	B-3	C562	B-3
Q404	F-11	Q521	E-7	D405	B-13	R404	F-14	R434	B-13	R508	D-6	R539	A-8	R605	B-2	C404	F-14	C434	C-14	C503	B-3	C533	A-4	C563	C-9
Q405	F-11	Q522	F-8	D406	C-13	R405	G-14	R435	C-14	R509	D-5	R540	E-10			C405	F-13	C435	C-13	C504	C-4	C534	B-3	C564	B-10
Q406	F-11	Q523	F-7	D407	A-14	R406	G-14	R436	C-13	R510	D-6	R541	F-8			C406	F-13	C436	C-14	C505	C-4	C535	A-4	C601	A-1
Q407	F-11	Q524	F-6	D408	E-9	R407	F-14	R437	C-14	R511	C-4	R542	F-8			C407	G-14	C437	C-14	C506	C-2	C536	A-4	C602	A-1
Q408	D-16	Q525	F-6	D501	B-10	R408	F-14	R438	C-14	R512	C-5	R543	E-8			C408	G-14	C438	C-14	C507	C-1	C537	C-9	C603	A-1
Q409	F-16	Q526	E-7	D502	A-9	R409	F-13	R439	C-14	R513	C-5	R544	E-8			C409	G-13	C439	C-15	C508	C-2	C538	F-8	C604	A-1
Q410	A-15	Q527	E-4	D503	D-4	R410	G-11	R440	C-15	R514	D-6	R545	E-8			C410	G-13	C440	D-13	C509	C-5	C539	E-5	C605	A-2
Q411	C-12	Q528	C-9	D504	B-4	R411	F-11	R441	C-15	R515	D-7	R546	E-7			C411	F-12	C441	G-8	C510	D-6	C540	E-5	C606	A-2
Q412	A-15	Q529	C-10	D505	D-5	R412	F-11	R442	D-15	R516	C-7	R547	F-7			C412	F-12	C442	G-8	C511	D-6	C541	E-9	C607	A-3
Q413	C-12	Q530	B-10	D507	F-9	R413	F-16	R443	A-15	R518	E-5	R548	F-7			C413	F 12	C443	F-15	C512	D-6	C542	E-8	C608	B-0
Q414	C-14	Q601	A-1	D508	A-12	R414	E-16	R444	G-11	R519	F-9	R549	E-7			C414	G-13	C444	F-16	C513	C-6	C543	E-8	C609	B-0
Q415	E-9			D509	F-7	R415	D-16	R445	C-13	R520	B-8	R550	E-7			C415	E-13	C445	F-16	C514	D-7	C544	F-8	C610	B-1
Q501	C-2			D510	A-13	R416	F-16	R446	C-14	R521	B-7	R551	F-6			C416	E-13	C446	E-16	C515	C-8	C545	F-8	C611	B-1
Q502	D-6					R417	B-15	R447	B-14	R522	C-7	R552	F-6			C417	F-15	C447	D-16	C516	C-8	C546	F-8	C612	B-2
Q503	C-4					R418	B-16	R448	G-8	R523	C-8	R553	E-6			C418	E-14	C448	C-15	C517	C-8	C547	F-7	C613	B-2
Q504	D-7					R419	D-10	R449	G-8	R524	C-8	R554	E-6			C419	E-14	C449	D-16	C518	C-7	C548	E-7	C614	B-2
Q505	E-5					R420	E-11	R450	G-10	R525	B-7	R555	E-6			C420	E-15	C450	C-9	C519	C-7	C549	E-7	C615	A-1
Q506	D-8					R421	A-15	R451	G-9	R526	C-7	R556	F-6			C421	E-15	C451	G-10	C520	B-8	C550	F-7	C616	B-1
Q509	B-8					R422	A-15	R452	E-9	R527	A-6	R557	E-6			C422	E-10	C452	G-8	C521	B-7	C551	F-6		
Q510	C-8					R423	A-15	R453	C-9	R528	B-6	R558	F-5			C423	C-12	C453	G-9	C522	B-6	C552	F-5		
Q511	B-7					R424	B-13	R454	D-9	R529	B-6	R559	F-4			C424	C-12	C454	C-12	C523	B-8	C553	F-6		
Q512	B-7					R425	C-12	R455	D-15	R530	B-6	R560	E-4			C425	C-12	C455	G-13	C524	A-7	C554	F-6		
Q513	C-8					R426	B-12	R456	F-16	R531	A-6	R561	E-4			C426	C-12	C456	B-11	C525	B-6	C555	E-4		
Q514	B-8					R427	G-10	R501	B-9	R532	B-5	R562	D-4			C427	C-12	C457	D-9	C526	A-7	C556	E-5		
Q515	B-8					R428	B-12	R502	A-5	R533	A-5	R563	F-8			C428	C-12	C458	D-9	C527	B-5	C557	G-6		
Q516	B-6					R429	B-13	R503	C-4	R534	A-12	R564	B-10			C429	B-12	C459	F-16	C528	A-7	C558	G-5		
Q517	A-4					R430	B-12	R504	B-2	R535	B-4	R601	A-2			C430	C-13	C460	C-12	C529	B-5	C559	G-4		

3.16 VIDEO UNIT SCHEMATIC DIAGRAM

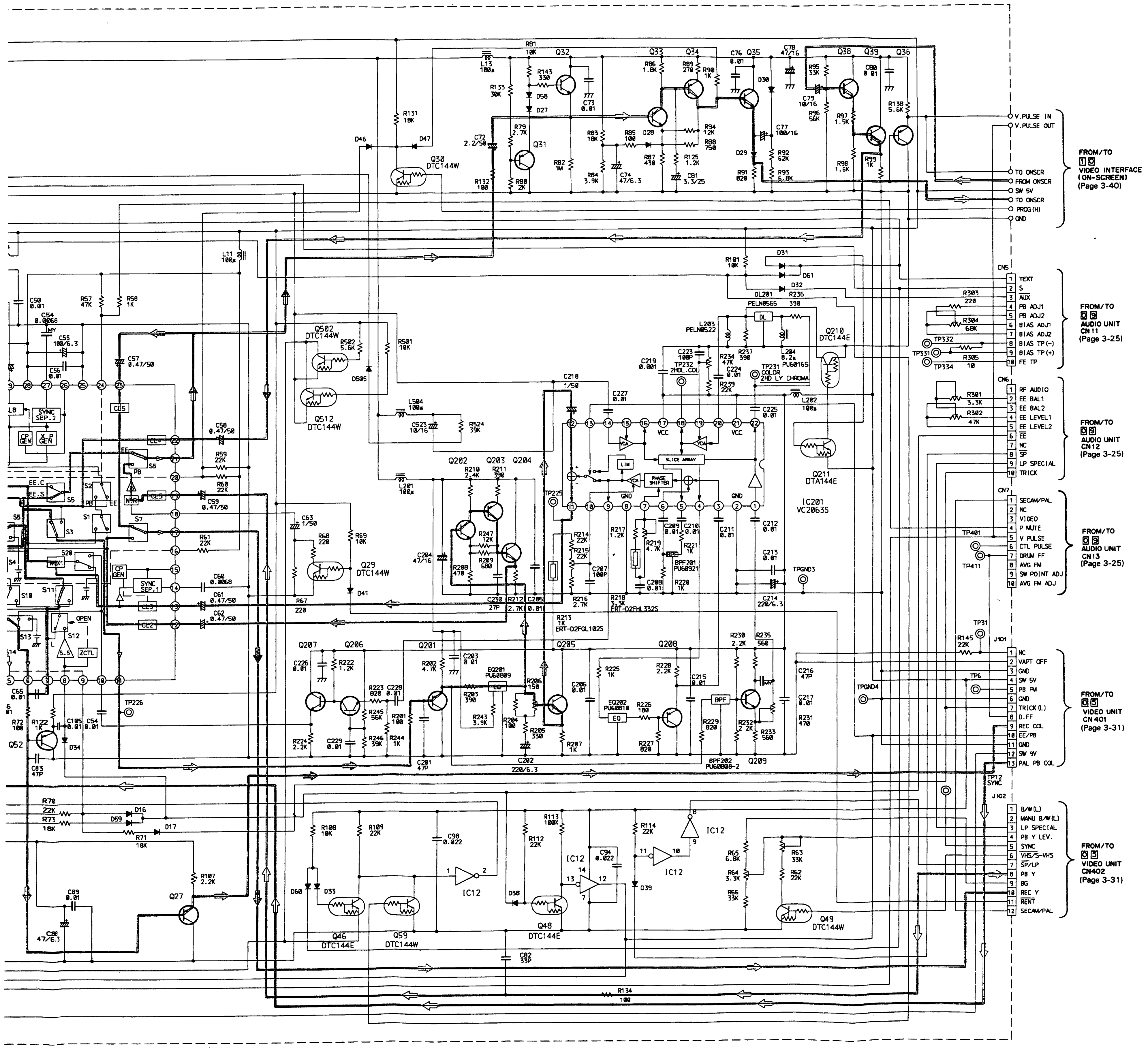

05 VIDEO UNIT
From/To 4 5 REC AMP CN2 (Page 3-47)
CN501
REC COLOR(629/TM)
GND
PB COLOR(629/TM)
From/To 1 0 VIDEO INTERFACE J101 (Page 3-36)
CN401
V APT OFF
GND
SW5 5V
PB FM
GND
SPCL PB
DRUM FF
REC COLOR
PB/EE
GND
SW5 9V
PB PAL COLOR
From/To 4 5 REC AMP CN5 (Page 3-47)
CN503
SP/LP
VHS/S VHS
DRUM FF
COLOR ROT
SYNC
GND
SPCL PB
PILOT DET(COMP)
From/To 1 0 VIDEO INTERFACE J102 (Page 3-36)
CN402
LP SPCL PB
PB Y LEVEL
SYNC
VHS/S VHS
SP/LP
PB Y
GND
REC Y
TEST
TP406
Q519
Q520
Q521
Q524
Q525
Q519,Q520,Q521 2SC4081(QRS)
Q501 2SA1576(QRS)
Q502 DTC144WU
Q524,Q525,Q527 2SA1576(QRS)
D511 DAN202U
Q530
Q529
Q528
Q501
Q502
DL501 2H DL
Q504 2SC4081(QRS)
Q505,Q528,Q529,Q530 DTC144WU
D505 DAN202U
Q505
Q506
IC503
Q506 DTC144WU
IC503 TC4S01F
D507 DAN202U
TP551
Q510,Q514 DTC144WU
Q513 DTC114EU
Q510
Q514
Q513
Q509
Q516
Q515
Q518
Q517
Q516 2SC4081(QRS)
Q515 DTC144WU
Q509 DTA124EU
Q517 2SC4081(QRS)
Q518 DTA114EU
IC501 PB20463A-01
REC 0.2 Vp-p
PB 0.2 Vp-p
REC 0.6 Vp-p
REC 0.5 Vp-p
REC 0.25 Vp-p
REC/PB 0.4 Vp-p
REC 0.2 Vp-p
PB 0.25 Vp-p
PB 0.5 Vp-p
REC/PB 3.0 Vp-p
TP521 PILOT ADDED COL
TP2 GND
TP526 COMP/SEPA
TP501 2fH VCO
TP506 VXO
ACC DET
TO ACC DET SW
R-Y INV
MAIN CONV
AUTO BAL
CHROMA VCA
BURST DET
B.D
CHROMA ACC DET
4 PHASE GEN
SUB CONV
TO APC DET SW
321fH/320fH VCO
2 PHASE FSC
PHASE SHIFT
ADDER
AGC
PULSE GEN
DET 1
ATT
COMP
CK DET
BURST POLOR P.D
FSC GEN
CR DET
REC APC PB DISCRI
X'TAL OSC
AGC DET
2fH VCO
3FSC DET
APC P.D
DET 2
COLOR ROT
IC409 TC4S71F
IC408 TC4S30F
Q401,Q40 2SC4081
Q415 DTC144WU
Q415
D408 DAN202U
D411
W/D CLIP TP434
TP421 YNR
REC 0.8 Vp-p
REC 0.3 Vp-p
TP450 REC FM
LEVEL ADJ
FREQ MOD
VHS CAR/DEV & W/D CLIP
HPF
DOUBLE LIMITER
FREQ DEMOD
DOC DET
CAR INT
LOGIC
SUB LPF
DEEMP & MUTE
SYNC SEP
PB ONLY VIDEO APT
SYNC EXP
ANR
SW 12
SW 13
SW 2
FM DET OUT
Q411 DTA144EU
IC407 TC4S01F
Q413 DTC124EU
IC406 TC4S81F
Q411
Q413
IC407
IC406
D405 DAN202U
D404 DAN202U
D406
Q414
Q414 DTC144WU
PB 0.6 Vp-p
5
4
3
2
1
A
B
C
D
E
F
G
H


IC409 TC4S71F
IC408 TC4S30F
Q401,Q402,Q403 2SC4081(QRS)
Q404 2SC4081(QRS)
IC402 CXL5003M
R444 YNR LEVEL
Q407
Q415 DTC144WU
Q407,Q409 2SA1576(QRS)
R416 SUB EMPHA INPUT LEVEL
REC/PB 0.4 Vp-p
SUB EMPHA IN TP439
Q409
TP551
Q525
Q504 2SC4081(QRS)
Q506
IC503
Q506 DTC144WU
IC503 TC4S01F
W/D CLIP TP434
TP421 YNR
REC 0.8 Vp-p
Q408
TP3 GND
Q408 DTC144WU
IC401 (JA073) PB20432D
SVHS NONLINEAR EMPHASIS/DEEMPHASIS
REC 1.0 Vp-p
IC404 MC74HC4538AN
REC 0.5 Vp-p
Q510,Q514 DTC144WU
Q513 DTC114EU
REC 0.3 Vp-p
REC 0.25 Vp-p
TP450 REC FM
Q411 DTA144EU
IC407 TC4S01F
Q413 DTC124EU
IC406 TC4S81F
REC/PB 0.4 Vp-p
IC404 (1/3)
IC404 (1/3)
TP1 GND
TP506 VXO
Q516 2SC4081(QRS)
Q515 DTC144WU
Q509 DTA124EU
Q510
Q514
Q513
Q509
Q515
Q411
Q413
IC407
IC406
Q414
IC405 (1/4)
IC405 (1/4)
IC405 (1/4)
IC405 (1/4)
Q414 DTC144WU
PB 0.6 Vp-p
IC405 CD4066BE
REC 1.0 Vp-p
CN504
REC FM
GND
PB FM
From/To 4 5 REC AMP CN3 (Page 3-47)
CN506
S-VHS
EDIT
PICTURE
REPT
From 8 4 MECHACON(A/S/M) CN612 (Page 3-21)
CN502
SFSC
GND
COMP SYNC
GND
YNR PULSE
FM DET OUT
ATFM
GND
From/To 8 6 SERVO(A/S/M) CN403 (Page 3-18)

3.17 VIDEO INTERFACE SCHEMATIC DIAGRAM



10 VIDEO INTERFACE
CN19
AL 5V
AL 12V
GND
CN1
SW 5V
SW 12V
GND
AL 12V
AL 5V
FROM/TO 32 REG(1) CN5 (Page 3-14)
CN8
F VIDEO
GND
F Y
GND
F C
GND
REAR (L)
FROM/TO 57 SW/JACK CN5 (Page 3-52)
FROM/TO 56 JACK CN1 (Page 3-48)
AV1 VIDEO
R S Y IN
R S C IN
SC OUT
SY OUT
AV1 Y/V OUT
GND
IC2 BA7643A
IC3 BA7644AN
IC1 JCP0021
IC7
IC12
IC201 VC2063S
Q19 2SD1488 (RS)
Q9 2SA854 (QR)
Q11 2SA854 (QR)
Q14 2SA854 (QR)
Q2 DTC144E
Q4 DTC144W
Q60 DTC144E
Q25 DTC144W
Q30 DTC144W
Q29 DTC144W
Q502 DTC144W
Q512 DTC144W
Q210 DTC144E
Q211 DTA144E
Q46 DTC144E
Q59 DTC144W
Q48 DTC144E
Q49 DTC144W
TP210 C OUT
TP110 Y OUT
TP10 VIDEO OUT
TPGND1
TPGND2
TPGND3
TPGND5
TP226
TP225
TP231 COLOR 2HD LY CHROMA
TP232 2HDL.COL
AGC AMP
AGC DET
SYNC SEP.2
SYNC SEP.1
CP GEN
X-P GEN
LOGIC
MUTE3
MUTE4
MUTE5
BLUE BACK SKEW
ZCTL
OPEN
LPF
BPF
EQ
SLICE ARRAY
PHASE SHIFTER
LIM
VCA
ERT-D2FHL332S
ERT-D2FQL102S
LC1 PU60813
EQ201 PU60809
EQ202 PU60810
BPF201 PU60921
BPF202 PU60800-2
DL201 PELN0565
L203 PELN0522
L204 8.2μ PU60165
A
B
C
D
E
F
G
H
1
2
3
4
5

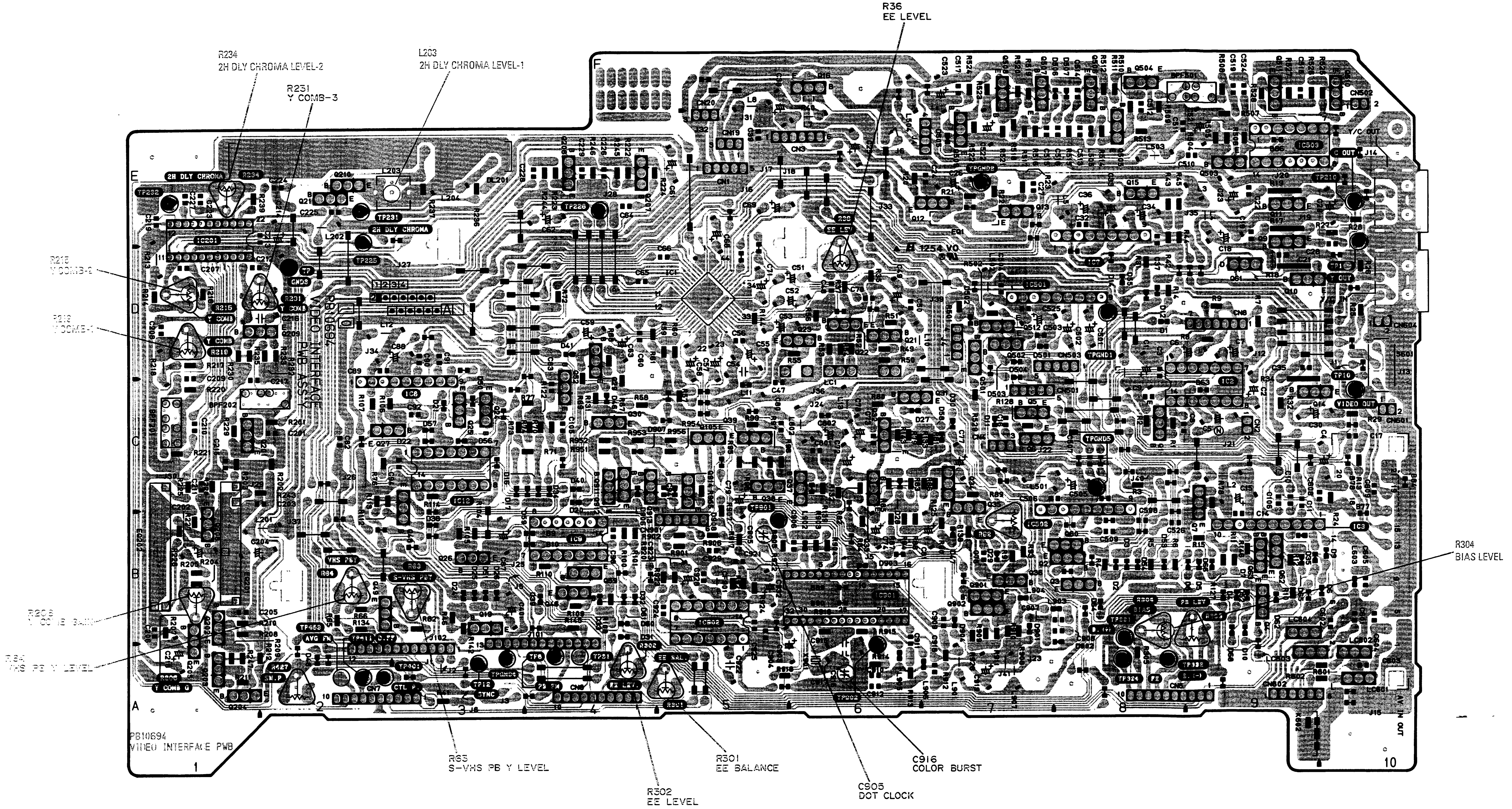

V.PULSE IN
V.PULSE OUT
TO ONSCR
FROM ONSCR
SW 5V
TO ONSCR
PROG (H)
GND
FROM/TO
10
VIDEO INTERFACE
(ON-SCREEN)
(Page 3-40)
CN5
TEXT
S
AUX
PB ADJ1
PB ADJ2
BIAS ADJ1
BIAS ADJ2
BIAS TP(-)
BIAS TP(+)
FE TP
FROM/TO
AUDIO UNIT
CN11
(Page 3-25)
CN6
RF AUDIO
EE BAL1
EE BAL2
EE LEVEL1
EE LEVEL2
EE
NC
SP
LP SPECIAL
TRICK
FROM/TO
AUDIO UNIT
CN12
(Page 3-25)
CN7
SECAM/PAL
NC
VIDEO
P MUTE
V PULSE
CTL PULSE
DRUM FF
AVG FM
SW POINT ADJ
AVG FM ADJ
FROM/TO
AUDIO UNIT
CN13
(Page 3-25)
J101
NC
VAPT OFF
GND
SW 5V
PB FM
GND
TRICK(L)
D.FF
REC COL
EE/PB
GND
SW 9V
PAL PB COL
FROM/TO
VIDEO UNIT
CN 401
(Page 3-31)
J102
B/W(L)
MANU B/W(L)
LP SPECIAL
PB Y LEV.
SYNC
VHS/S-VHS
SP/LP
PB Y
BG
REC Y
RENT
SECAM/PAL
FROM/TO
VIDEO UNIT
CN402
(Page 3-31)
IC201
VC2063S
Q30
DTC144W
Q502
DTC144W
Q512
DTC144W
Q29
DTC144W
Q210
DTC144E
Q211
DTA144E
Q46
DTC144E
Q59
DTC144W
Q48
DTC144E
Q49
DTC144W
IC12
Q27
Q52
Q31
Q32
Q33
Q34
Q35
Q38
Q39
Q36
Q201
Q202
Q203
Q204
Q205
Q206
Q207
Q208
Q209
EQ201
PU60809
EQ202
PU60810
BPF201
PU60921
BPF202
PU60808-2
L204
PU60165
L203
PELN0622
DL201
PELN0565
TP231
COLOR
2HD LY CHROMA
TP232
2HDL.COL
SLICE ARRAY
PHASE SHIFTER
LIM
SYNC SEP.2
SYNC SEP.1
CP GEN
TP225
TP226
TP332
TP331
TP334
TP401
TP411
TPGND3
TPGND4
TP31
TP6
TP12 SYNC
R134 100

— DC VOLTAGE —

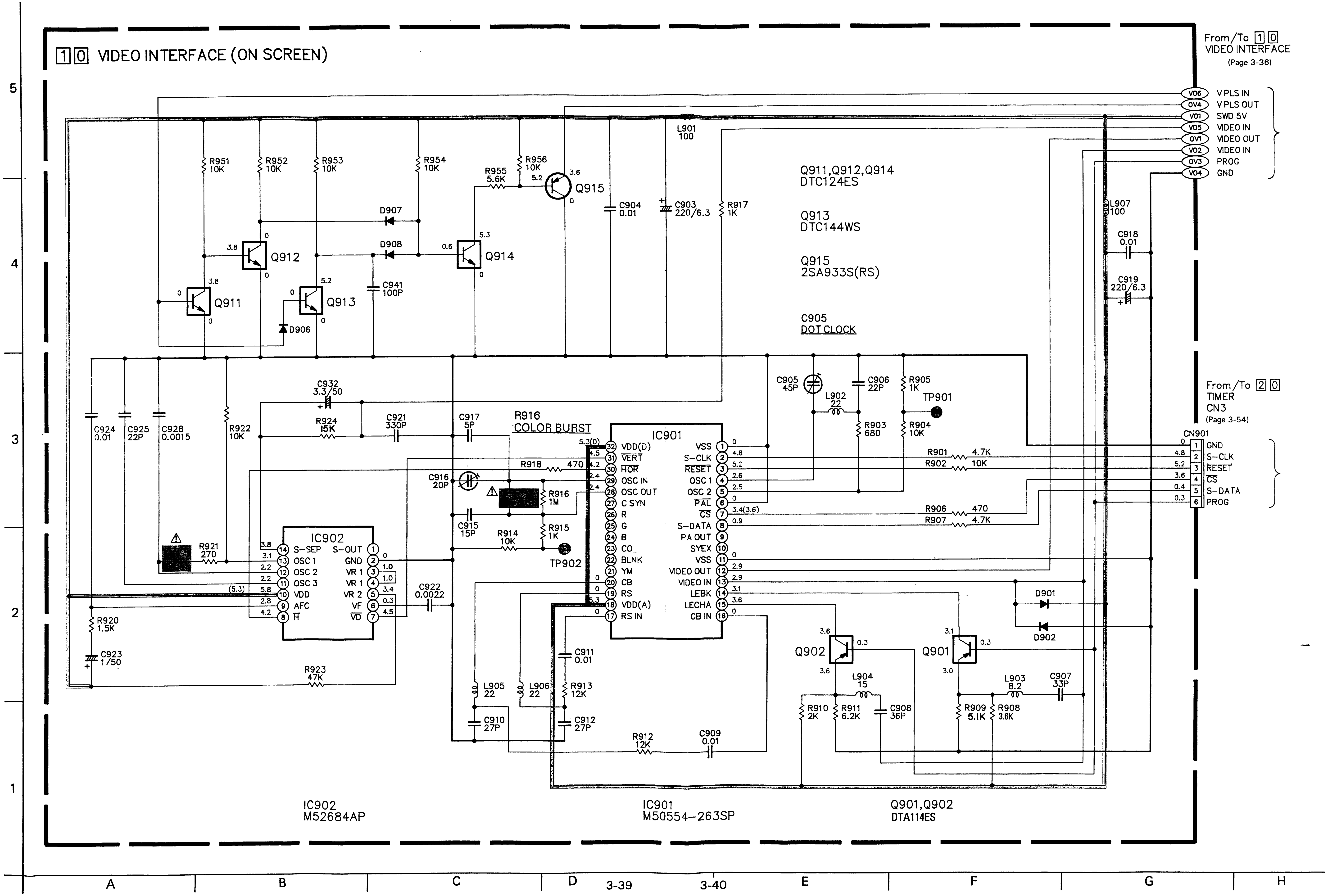
VIDEO INTERFACE <10>

SYMBOL	No.	REC	PB
INTEGRATED CIRCUIT			
IC1	1	0.0	0.0
	2	0.5	0.5
	3	2.7	5.3
	4	3.5	0.0
	5	1.9	0.0
	6	2.1	0.0
	7	3.6	3.6
	8	0.9	3.5
	9	0.5	5.3
	10	2.8	2.8
	11	1.9	1.9
	12	4.0	4.0
	13	4.0	4.0
	14	0.1	0.1
	15	0.3	0.3
	16	0.1	0.1
	17	1.9	1.9
	18	2.1	2.3
	19	0.1	3.4
	20	2.6	2.6
	21	0.0	2.6
	22	4.0	4.5
	23	3.9	4.0
	24	0.1	0.1
	25	0.0	0.0
	26	0.4	5.1
	27	2.7	2.9
	28	5.2	5.2
	29	4.0	4.0
	30	2.0	3.5
	31	3.9	1.2
	32	3.0	3.6
	33	3.1	3.4
	34	3.1	3.1
	35	2.4	1.4
	36	2.9	2.9
	37	2.8	2.8
	38	2.0	0.0
	39	4.0	4.0
	40	0.1	2.1
	41	5.2	5.2
	42	1.9	1.9
	43	4.1	4.1
	44	1.8	2.0
IC2	1	2.1	2.1
	2	0.0	0.0
	3	4.2	4.2
	4	4.2	4.2
	5	3.1	4.8
	6	2.0	2.0
	7	0.0	0.0
	8	2.0	2.0
	9	0.0	0.0
	10	2.0	2.0
	11	5.3	5.3
	12	2.5	2.1
	13	0.0	0.0
	14	1.0	0.6
IC3	1	3.8	3.8
	2	4.1	4.1
	3	3.0	3.0
	4	3.8	3.8
	5	0.0	5.2
	6	3.8	3.8
	7	5.2	5.2
	8		
	9	0.0	0.0
	10	2.3	2.3
IC7	1		
	2	2.0	2.0
	3		
	4	0.0	0.0
	5	4.8	4.8
	6	5.4	5.4
	7	0.2	0.2
	8	5.5	5.7
	9		
IC12	1	0.0	0.0
	2	5.3	5.3
	3	0.0	0.0
	4	0.0	0.0
	5	4.4	4.4
	6	0.0	0.0
	7	5.2	5.2
IC12	8	0.0	0.0
	9	5.3	5.3
	10	5.3	5.3
	11	0.7	0.7
	12	5.2	5.2
	13	0.0	0.0
	14	5.3	5.3
IC201	1	2.7	2.7
	2	0.0	0.0
	3	2.3	2.3
	4	1.9	1.9
	5	1.7	1.7
	6	2.3	2.3
	7	3.0	3.0
	8	0.0	0.0
	9	2.3	2.3
	10	1.4	1.4
	11	1.8	1.8
	12	2.9	2.9
	13	0.0	5.3
	14	3.4	3.4
	15	3.1	2.8
	16	2.4	0.0
	17	5.1	5.1
	18	1.6	1.6
	19	0.7	1.4
	20	3.4	3.4
	21	5.2	5.2
	22	1.6	1.6
TRANSISTOR			
Q1	B	1.0	0.6
	C	0.0	0.0
	E	1.6	1.3
Q2	B	0.6	0.6
	C	4.6	4.6
	E	0.0	0.0
Q4	B	0.6	0.6
	C	3.9	3.9
	E	0.6	0.6
Q7	B	2.3	2.3
	C	0.0	0.0
	E	2.9	2.9
Q9	B	2.8	2.8
	C	0.0	0.0
	E	3.3	3.7
Q11	B	2.7	2.7
	C	0.0	0.0
	E	3.3	3.3
Q14	B	4.7	4.7
	C	0.0	0.0
	E	5.3	5.3
Q15	B	1.9	1.9
	C	0.0	0.0
	E	2.5	2.5
Q19	B	10.1	10.1
	C	12.0	12.0
	E	9.5	9.5
Q21	B	2.4	2.4
	C	0.0	0.0
	E	3.0	3.0
Q22	B	2.0	1.2
	C	0.0	0.0
	E	2.7	1.9
Q23	B	4.0	3.6
	C	5.2	5.2
	E	3.3	2.9
Q25	B	5.2	5.2
	C	0.0	0.0
	E	0.0	0.0
Q27	B	2.0	2.0
	C	0.0	0.0
	E	2.6	2.6
Q29	B	0.0	0.0
	C	4.5	4.5
	E	2.7	0.0
Q30	B	0.3	0.3
	C	5.2	5.2
	E	0.0	0.0
Q31	B	0.7	0.7
	C	0.0	0.0
	E	1.3	1.3
Q32	B	2.5	2.5
	C	12.0	12.0
	E	2.4	2.4
Q33	B	2.4	2.4
	C	10.5	10.5
	E	1.8	1.8
Q34	B	4.3	4.3
	C	12.0	12.0
	E	3.7	3.7
Q35	B	4.3	4.3
	C	12.0	12.0
	E	3.7	3.7
Q36	B	2.9	2.9
	C	0.0	0.0
	E	3.6	3.6
Q38	B	7.3	7.3
	C	12.0	12.0
	E	6.6	6.6
Q39	B	3.4	3.4
	C	12.0	12.0
	E	2.8	2.8
Q46	B	4.0	4.0
	C	0.0	0.0
	E	0.0	0.0
Q48	B	0.6	3.7
	C	5.2	0.0
	E	0.0	0.0
Q49	B	0.1	0.5
	C	2.4	2.4
	E	0.0	0.0
Q52	B	2.1	2.1
	C	0.0	0.0
	E	2.7	2.7
Q59	B	4.0	4.0
	C	0.0	0.0
	E	0.0	0.0
Q60	B	0.6	0.6
	C	0.0	0.0
	E	0.0	0.0
Q62	B	4.4	4.4
	C	5.3	5.3
	E	4.1	4.1
Q63	B	4.8	4.8
	C	5.3	5.3
	E	4.2	4.2
Q201	B	0.8	0.8
	C	0.0	0.0
	E	1.4	1.4
Q202	B	2.4	3.5
	C	9.5	9.5
	E	2.8	2.8
Q203	B	9.5	9.5
	C	5.9	5.9
	E	10.1	10.1
Q204	B	5.9	5.9
	C	12.0	12.0
	E	5.3	5.3
Q205	B	3.4	3.4
	C	5.1	5.1
	E	2.7	2.7
Q206	B	2.0	2.0
	C	4.2	4.2
	E	1.4	1.4
Q207	B	4.2	4.2
	C	5.1	5.1
	E	3.6	3.6
Q208	B	0.8	0.8
	C	0.0	0.0
	E	1.4	1.4
Q209	B	2.6	2.6
	C	3.3	3.3
	E	1.9	1.9
Q210	B	0.0	0.0
	C	0.0	0.0
	E	0.0	0.0
Q211	B	2.4	4.8
	C	0.0	0.0
	E	3.0	5.3
CONNECTOR			
CN1	1	5.3	5.3
	2	12.0	12.0
	3	0.0	0.0
	4	12.1	12.1
	5	4.9	4.9
CN5	1	4.6	4.6
	2	5.3	5.3
	3	3.9	4.3
	4	0.0	0.0
	5	0.0	0.0
	6	0.0	0.0
	7	0.3	0.0
	8	0.0	0.0
	9	0.0	0.0
	10	0.0	0.0
CN6	1	0.0	0.0
	2	9.5	9.5
	3	9.3	9.3
	4	5.9	5.9
	5	2.2	2.2
	6	0.0	5.1
	7	0.0	0.0
	8	0.2	0.0
	9	5.4	5.4
	10	5.2	5.2
CN7	1	4.5	4.5
	2	0.0	0.0
	3	0.0	0.0
	4	0.0	0.0
	5	0.0	0.0
	6	2.7	2.7
	7	2.7	2.7
	8	0.0	0.9
	9	0.0	0.0
	10	0.0	0.0
CN8	1	0.0	0.0
	2	0.0	0.0
	3	0.0	0.0
	4	0.0	0.0
	5	0.0	0.0
	6	0.0	0.0
	7	0.0	0.0

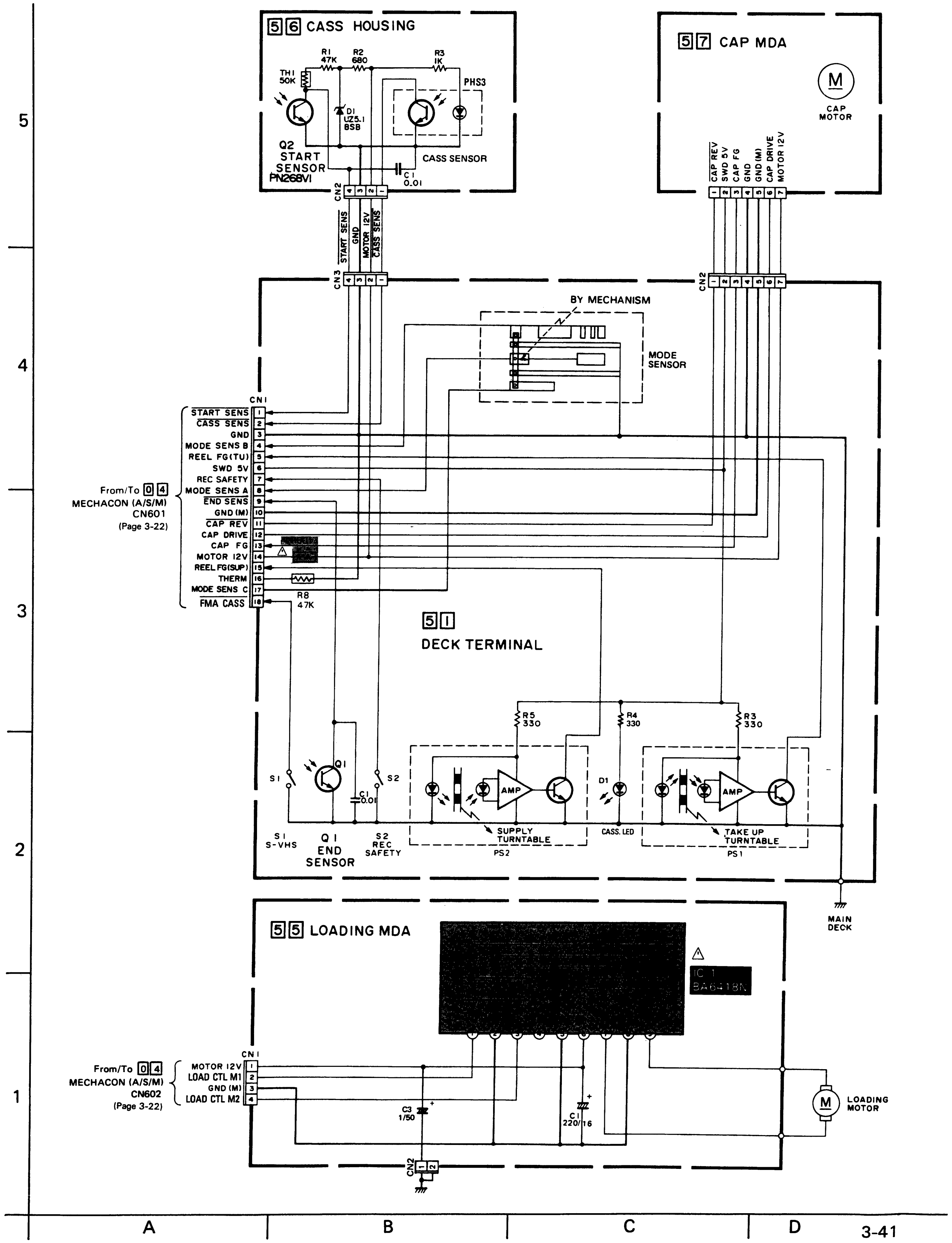
3.18 VIDEO INTERFACE CIRCUIT BOARD


R234
2H DLY CHROMA LEVEL-2
R231
Y COMB-3
L203
2H DLY CHROMA LEVEL-1
R36
EE LEVEL
R215
Y COMB-2
R219
Y COMB-1
R208
Y COMB GAIN
R84
VHS PB Y LEVEL
R304
BIAS LEVEL
PB10694
VIDEO INTERFACE PWB
R65
S-VHS PB Y LEVEL
R302
EE LEVEL
R301
EE BALANCE
C905
DOT CLOCK
C916
COLOR BURST
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
10

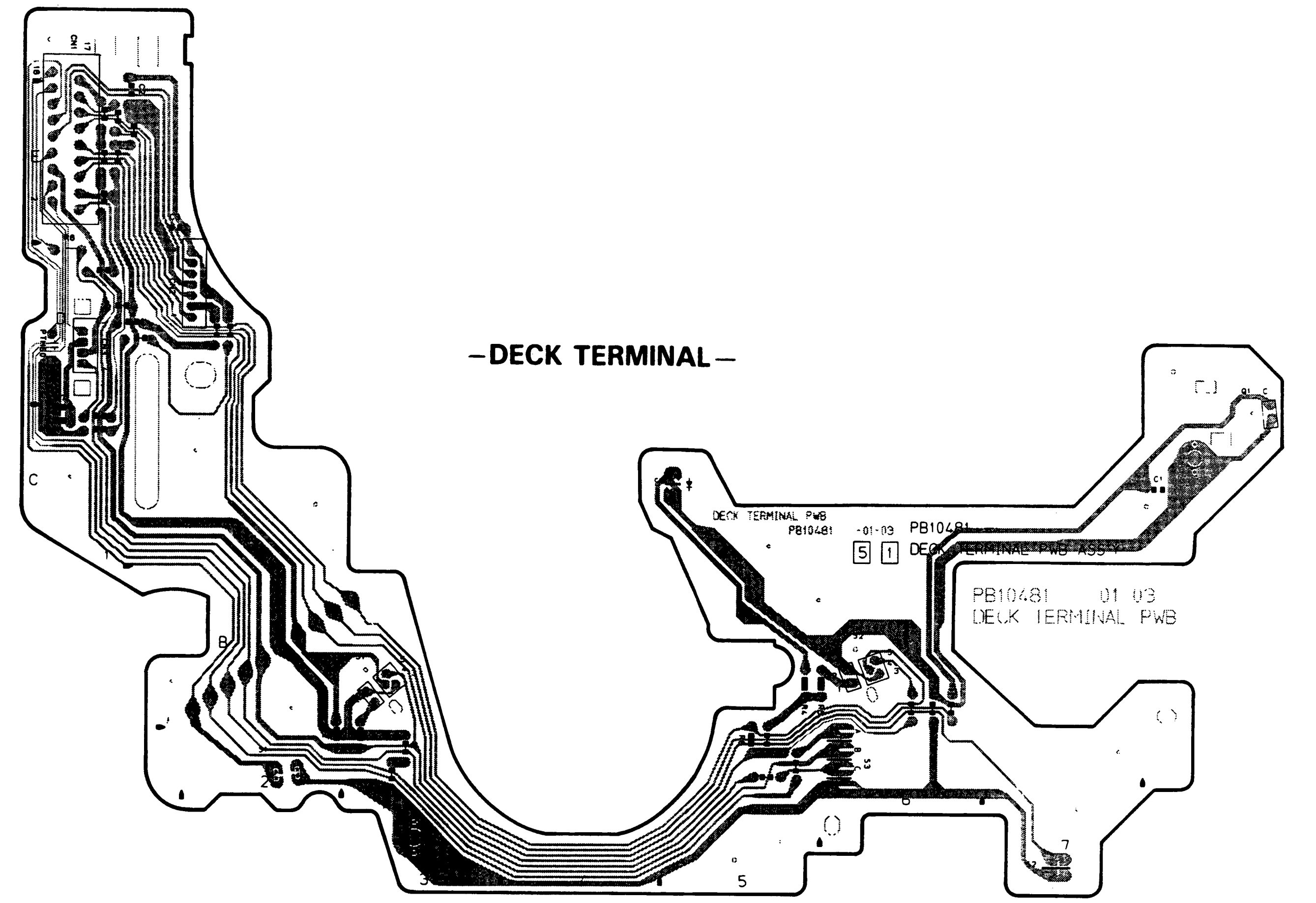
3.19 ON SCREEN SCHEMATIC DIAGRAM


1 0 VIDEO INTERFACE (ON SCREEN)
From/To 1 0 VIDEO INTERFACE (Page 3-36)
V06 V PLS IN
OV4 V PLS OUT
V01 SWD 5V
V05 VIDEO IN
OV1 VIDEO OUT
V02 VIDEO IN
OV3 PROG
V04 GND
From/To 2 0 TIMER CN3 (Page 3-54)
CN901
1 GND
2 S-CLK
3 RESET
4 CS
5 S-DATA
6 PROG
Q911,Q912,Q914 DTC124ES
Q913 DTC144WS
Q915 2SA933S(RS)
C905 DOT CLOCK
R916 COLOR BURST
IC901
VDD(D)
VERT
HOR
OSC IN
OSC OUT
C SYN
R
G
B
CO_
BLNK
YM
CB
RS
VDD(A)
RS IN
VSS
S-CLK
RESET
OSC 1
OSC 2
PAL
CS
S-DATA
PA OUT
SYEX
VSS
VIDEO OUT
VIDEO IN
LEBK
LECHA
CB IN
IC902
S-SEP
OSC 1
OSC 2
OSC 3
VDD
AFC
H
S-OUT
GND
VR 1
VR 1
VR 2
VF
VD
R951 10K
R952 10K
R953 10K
R954 10K
R955 5.6K
R956 10K
Q911
Q912
Q913
Q914
Q915
D906
D907
D908
C941 100P
C904 0.01
C903 220/6.3
R917 1K
L901 100
L907 100
C918 0.01
C919 220/6.3
C924 0.01
C925 22P
C928 0.0015
R922 10K
C932 3.3/50
R924 15K
C921 330P
C917 5P
R918 470
C916 20P
R916 1M
C915 15P
R914 10K
R915 1K
TP902
R921 270
C922 0.0022
R920 1.5K
C923 1/50
R923 47K
C905 45P
L902 22
C906 22P
R905 1K
TP901
R903 680
R904 10K
R901 4.7K
R902 10K
R906 470
R907 4.7K
D901
D902
Q902
Q901
L904 15
R910 2K
R911 6.2K
C908 36P
L903 8.2
C907 33P
R909 5.1K
R908 3.6K
C911 0.01
R913 12K
L905 22
L906 22
C910 27P
C912 27P
R912 12K
C909 0.01
IC902 M52684AP
IC901 M50554-263SP
Q901,Q902 DTA114ES
A
B
C
D
E
F
G
H
1
2
3
4
5

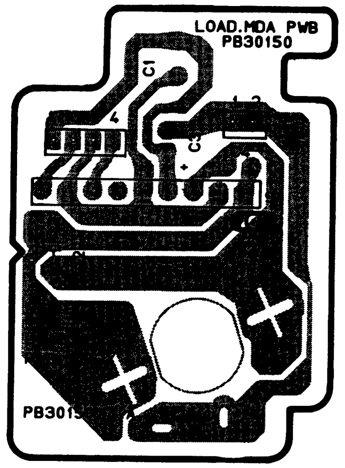
3.20 DECK TERMINAL, CASS. HOUSING, CAPSTAN MDA AND LOADING MDA SCHEMATIC DIAGRAMS


5 6 CASS HOUSING
R1 47K
R2 680
R3 1K
TH1 50K
PHS3
D1 UZ5.1 BSB
Q2 START SENSOR PN268VI
CASS SENSOR
C1 0.01
CN2
START SENS
GND
MOTOR 12V
CASS SENS
CN3
5 7 CAP MDA
M
CAP MOTOR
CAP REV
SWD 5V
CAP FG
GND
GND (M)
CAP DRIVE
MOTOR 12V
CN2
BY MECHANISM
MODE SENSOR
CN1
From/To 0 4 MECHACON (A/S/M) CN601 (Page 3-22)
START SENS
CASS SENS
GND
MODE SENS B
REEL FG(TU)
SWD 5V
REC SAFETY
MODE SENS A
END SENS
GND (M)
CAP REV
CAP DRIVE
CAP FG
MOTOR 12V
REEL FG(SUP)
THERM
MODE SENS C
FMA CASS
R8 47K
5 1 DECK TERMINAL
R5 330
R4 330
R3 330
S1
Q1
C1 0.01
S2
AMP
D1
S1 S-VHS
Q1 END SENSOR
S2 REC SAFETY
SUPPLY TURNTABLE
PS2
CASS. LED
TAKE UP TURNTABLE
PS1
MAIN DECK
5 5 LOADING MDA
IC 1 BA6418N
CN1
From/To 0 4 MECHACON (A/S/M) CN602 (Page 3-22)
MOTOR 12V
LOAD CTL M1
GND (M)
LOAD CTL M2
C3 1/50
C1 220/16
M
LOADING MOTOR
CN2
A
B
C
D
1
2
3
4
5

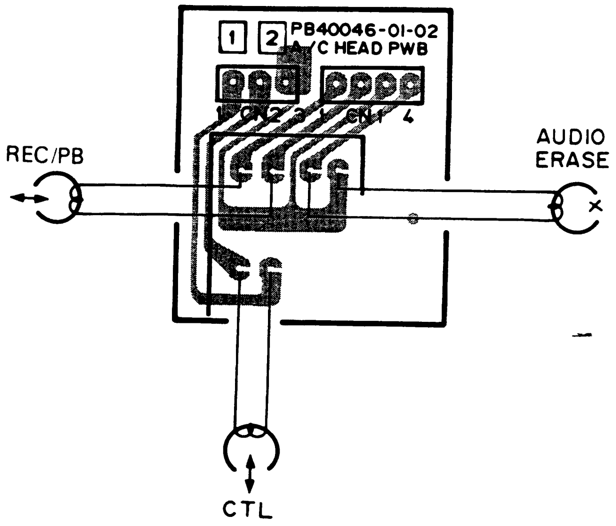
3.21 DECK TERMINAL, LOADING MDA, CASS. HOUSING AND A/CTL HEAD CIRCUIT BOARDS


–DECK TERMINAL–
DECK TERMINAL PWB
PB10481 -01-03
PB10481
5 1 DECK TERMINAL PWB ASSY
PB10481 01 03
DECK TERMINAL PWB
Q1
C1
3
5
7

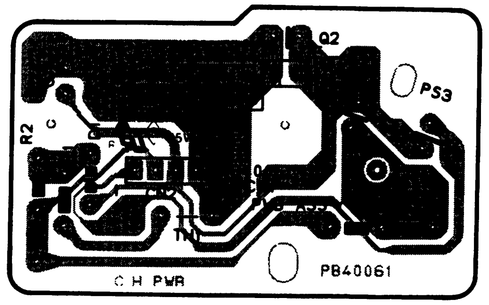
– LOADING MDA –


LOAD.MDA PWB
PB30150
C1
C3
4
1
PB301

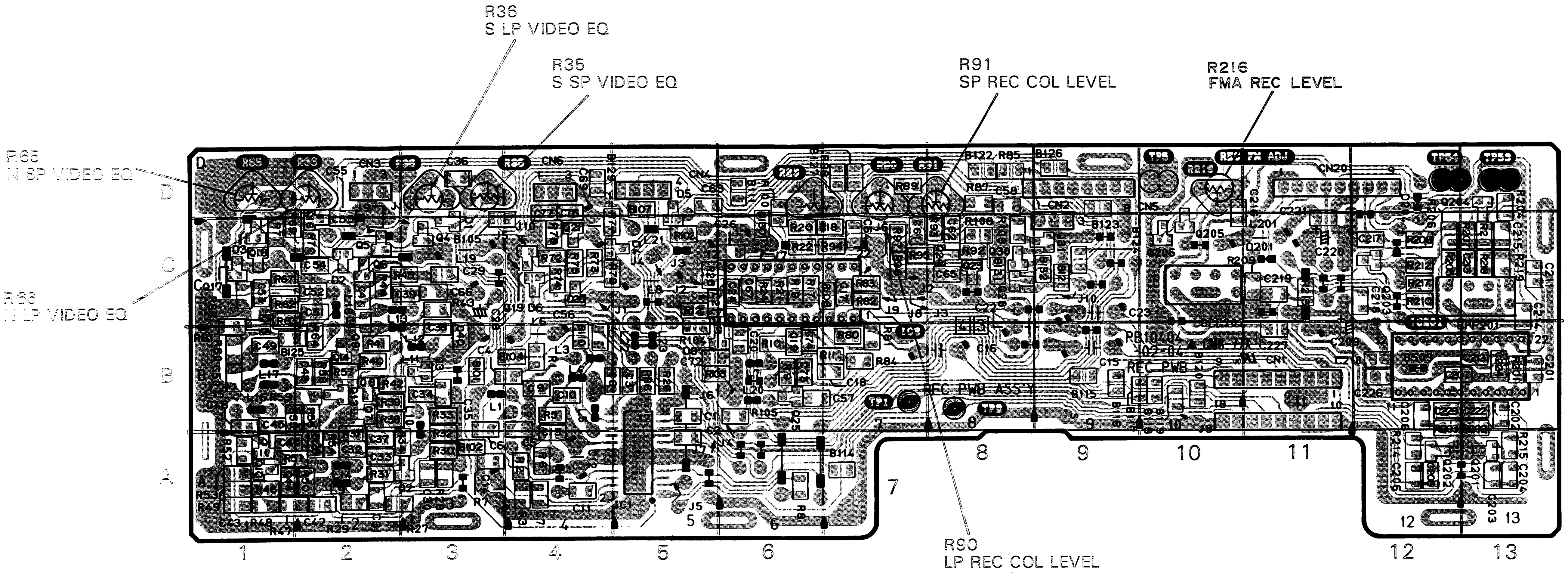
–A/CTL HEAD–


1 2 PB40046-01-02
A/C HEAD PWB
CN2
CN1
1
3
4
REC/PB
AUDIO ERASE
CTL

– CASSETTE HOUSING –


Q2
PS3
R2
C H PWR
PB40061

3.22 REC CIRCUIT BOARD



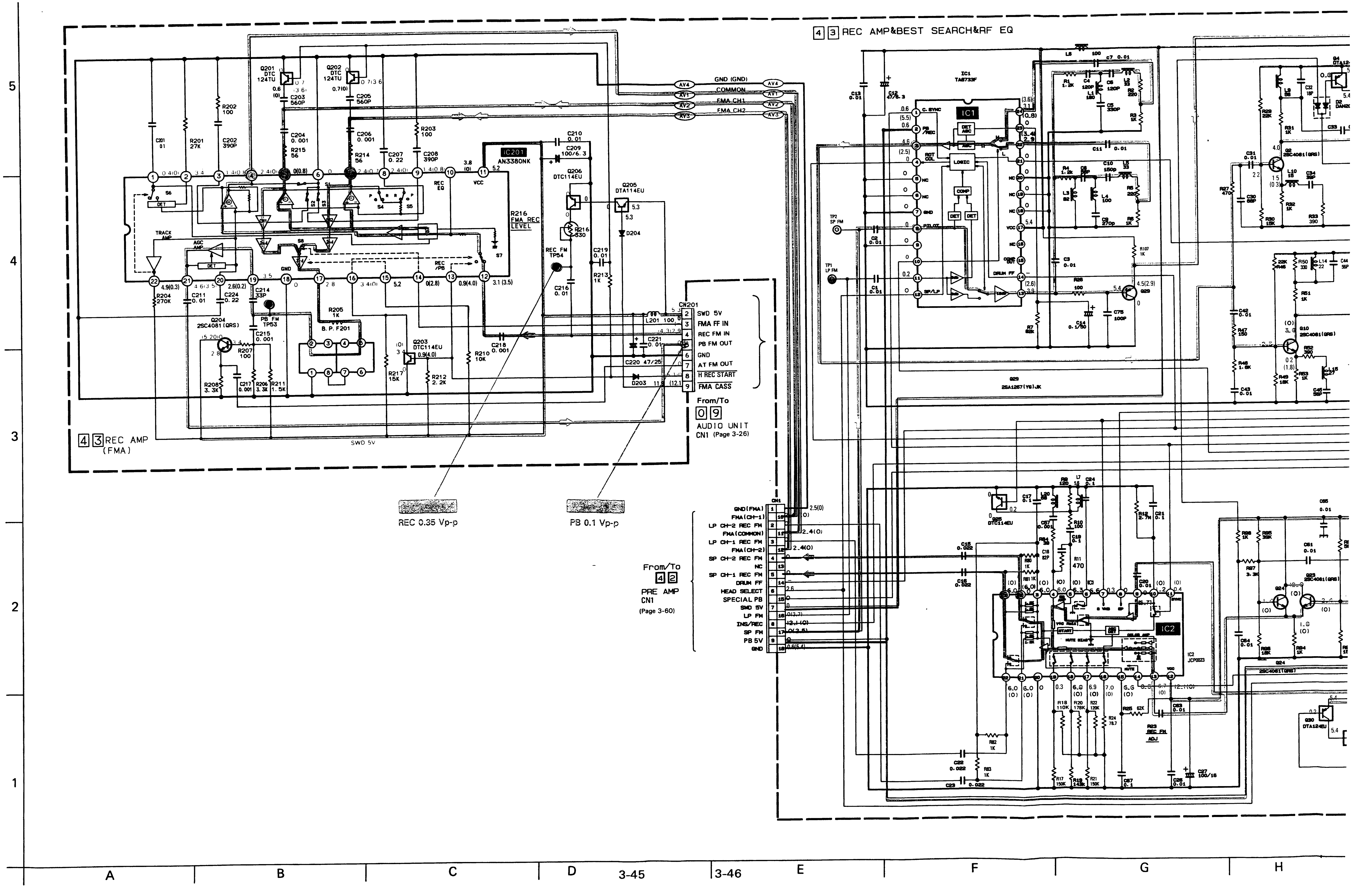
○ Address of chip parts

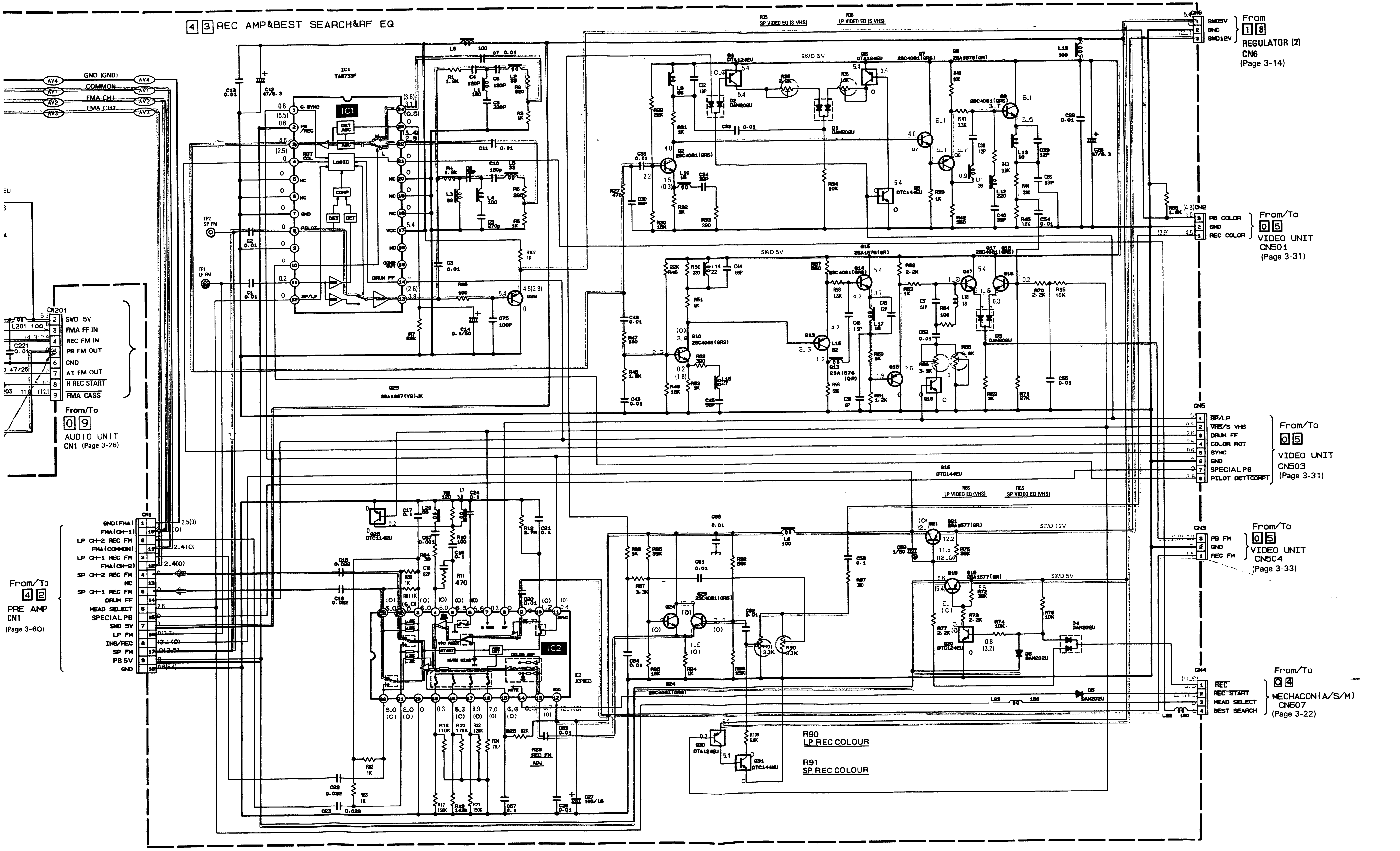
A-1
└── Address

REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION
TRANSISTOR		RESISTOR		RESISTOR		RESISTOR		CAPACITOR		CAPACITOR	
Q2	A-2	R1	B-3	R40	B-1	R75	C-3	C1	B-4	C37	B-1
Q3	B-2	R2	A-3	R41	B-1	R76	C-3	C2	B-4	C38	C-2
Q4	C-2	R3	A-3	R42	B-1	R77	D-3	C3	B-4	C39	C-2
Q5	C-1	R4	B-3	R43	C-2	R78	C-3	C4	B-3	C40	B-2
Q6	C-1	R5	B-3	R44	C-1	R80	B-6	C5	B-3	C41	C-1
Q7	B-1	R6	A-3	R45	C-2	R81	B-6	C6	B-2	C42	A-1
Q8	B-1	R7	A-2	R46	A-1	R82	C-6	C7	A-3	C43	A-1
Q9	C-1	R8	A-5	R47	A-1	R83	C-6	C8	B-3	C44	A-1
Q10	A-1	R9	B-5	R48	A-1	R84	B-6	C9	B-3	C45	B-1
Q11	A-1	R10	B-5	R49	A-1	R85	D-7	C10	B-3	C46	B-1
Q13	B-1	R11	B-6	R50	A-1	R86	B-4	C11	A-3	C47	A-1
Q14	B-1	R12	C-4	R51	A-1	R87	D-7	C12	A-3	C48	B-1
Q15	C-1	R17	C-5	R52	A-1	R89	D-6	C13	B-3	C49	B-1
Q16	D-1	R18	C-6	R53	A-1	R90	D-6	C14	A-2	C50	B-1
Q17	C-1	R19	C-5	R54	A-1	R91	D-6	C15	B-8	C51	C-1
Q18	C-1	R20	C-5	R55	B-1	R92	C-7	C16	B-6	C52	C-1
Q19	C-3	R21	C-5	R56	B-1	R93	C-7	C17	C-6	C53	C-1
Q20	C-3	R22	C-5	R57	B-1	R94	C-6	C18	B-6	C54	C-1
Q21	C-3	R23	D-5	R58	B-1	R95	C-6	C19	B-5	C55	D-1
Q23	C-7	R24	C-5	R59	B-1	R96	C-6	C20	B-5	C57	B-5
Q24	C-7	R25	C-4	R60	B-1	R97	C-6	C21	C-4	C58	D-7
Q25	B-5	R26	B-4	R61	C-1	R98	D-6	C22	C-7	C61	C-6
Q28	C-7	R27	A-1	R62	C-1	R100	D-5	C23	C-8	C62	C-7
Q30	C-7	R28	A-2	R63	C-1	R102	C-4	C24	C-5	C63	D-4
Q31	C-8	R29	A-1	R64	B-1	R103	B-4	C26	C-5	C64	C-6
		R30	A-2	R65	D-1	R104	C-4	C27	C-5	C65	C-7
DIODE		R31	A-1	R66	D-1	R105	B-5	C28	C-2	C66	C-2
		R32	B-2	R67	C-1	R106	C-6	C29	C-2	C67	C-5
D1	D-2	R33	B-2	R68	C-1	R108	C-7	C30	A-2	C69	C-3
D2	C-1	R34	A-2	R69	D-1	R109	C-7	C31	A-1	C72	B-4
D3	C-1	R35	D-2	R70	C-1			C32	A-1	C73	B-5
D4	C-4	R36	D-2	R71	C-1			C33	A-1	C74	B-5
D5	D-4	R37	B-1	R72	C-3			C34	B-2	C76	D-3
D6	C-3	R38	B-1	R73	C-3			C35	B-2	C77	D-3
D8	B-5	R39	B-1	R74	C-3			C36	D-2		

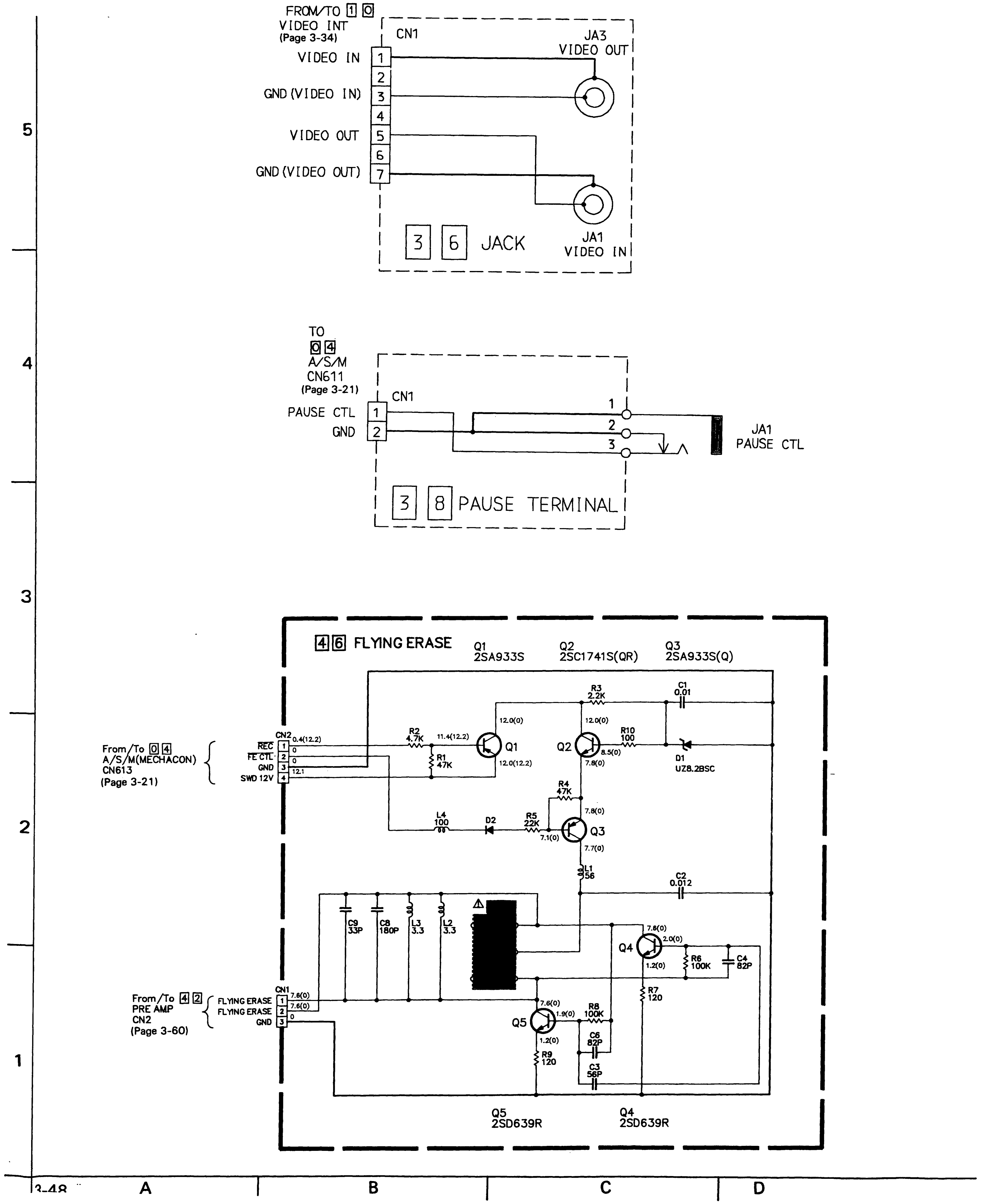
REF No.	LOCATION	REF No.	LOCATION	REF No.	LOCATION
TRANSISTOR		RESISTOR		CAPACITOR	
Q201	A-12	R201	B-12	C201	B-12
Q202	A-11	R202	B-12	C202	B-12
Q203	C-11	R203	B-11	C203	A-12
Q204	D-12	R204	D-12	C204	A-12
Q205	D-9	R205	C-11	C205	A-11
Q206	C-9	R206	C-11	C206	A-11
		R207	C-12	C207	B-12
DIODE		R208	C-11	C208	B-11
		R209	C-10	C209	C-11
D201	C-10	R210	C-11	C210	B-11
D203	C-11	R211	C-12	C211	C-12
D204	D-11	R212	C-11	C212	B-12
		R213	C-10	C213	C-12
		R214	A-11	C214	C-12
		R215	A-12	C215	C-12
		R216	D-9	C216	D-9
		R217	C-11	C217	C-11
		R218	C-12	C218	C-11
		R219	C-12	C219	C-10
				C220	C-10
				C221	D-10
				C222	B-12
				C223	B-11
				C224	B-12
				C226	B-11
				C227	C-10

3.23 REC AND FMA SCHEMATIC DIAGRAMS


4 3 REC AMP&BEST SEARCH&RF EQ
4 3 REC AMP (FMA)
IC201 AN3380NK
Q201 DTC 124TU
Q202 DTC 124TU
Q203 DTC114EU
Q204 2SC4081(QRS)
Q205 DTA114EU
Q206 DTC114EU
R216 FMA REC LEVEL
REC FM TP54
PB FM TP53
B. P. F201
TRACK AMP
AGC AMP
DET
REC EQ
REC /PB
GND
VCC
SWD 5V
CN201
SWD 5V
FMA FF IN
REC FM IN
PB FM OUT
GND
AT FM OUT
H REC START
FMA CASS
From/To
0 9
AUDIO UNIT CN1 (Page 3-26)
GND (GND)
COMMON
FMA CH1
FMA CH2
AV4
AV1
AV2
AV3
REC 0.35 Vp-p
PB 0.1 Vp-p
From/To
4 2
PRE AMP CN1
(Page 3-60)
CN1
GND(FMA)
FMA(CH-1)
LP CH-2 REC FM
FMA(COMMON)
LP CH-1 REC FM
FMA(CH-2)
SP CH-2 REC FM
NC
SP CH-1 REC FM
DRUM FF
HEAD SELECT
SPECIAL PB
SWD 5V
LP FM
INS/REC
SP FM
PB 5V
GND
IC1 TA8733F
C. SYNC
PB /REC
ROT COL
LOGIC
COMP
DRUM FF
SP/LP
PILOT
TP2 SP FM
TP1 LP FM
Q29 2SA1267(Y6)JK
IC2 JCP0023
START
MUTE START
R23 REC FM ADJ
Q25 DTC114EU
Q30 DTA124EU
Q2 2SC4081(QRS)
Q10 2SC4081(QRS)
Q23 2SC4081(QRS)
Q24 2SC4081(QRS)
A
B
C
D
E
F
G
H
1
2
3
4
5

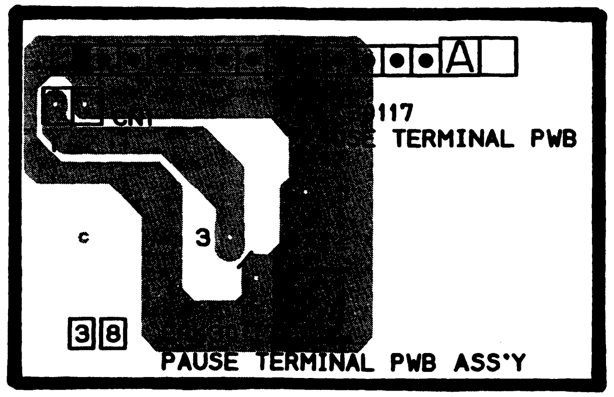

4 3 REC AMP&BEST SEARCH&RF EQ
IC1 TA8733F
IC2 JCP0023
GND (GND)
COMMON
FMA CH1
FMA CH2
CN201
SWD 5V
FMA FF IN
REC FM IN
PB FM OUT
GND
AT FM OUT
H REC START
FMA CASS
From/To 0 9 AUDIO UNIT CN1 (Page 3-26)
CN1
GND(FMA)
FMA(CH-1)
LP CH-2 REC FM
FMA(COMMON)
LP CH-1 REC FM
FMA(CH-2)
SP CH-2 REC FM
NC
SP CH-1 REC FM
DRUM FF
HEAD SELECT
SPECIAL PB
SWD 5V
LP FM
INS/REC
SP FM
PB 5V
GND
From/To 4 2 PRE AMP CN1 (Page 3-60)
TP2 SP FM
TP1 LP FM
C. SYNC
PB/REC
ROT COL
DET AGC
LOGIC
COMP
DET
PILOT
SP/LP
DRUM FF
VCC
Q29 2SA1267(YG)JK
R35 SP VIDEO EQ (S VHS)
R36 LP VIDEO EQ (S VHS)
SWD 5V
Q4 DTA124EU
Q5 DTA124EU
Q7 2SC4081(QRS)
Q8 2SA1576(QR)
Q9 2SC4081(QRS)
D1 DAN202U
D2 DAN202U
Q6 DTC144EU
Q15 2SA1576(QR)
Q17 2SC4081(QRS)
Q14 2SC4081(QRS)
Q10 2SC4081(QRS)
Q13 2SA1576(QR)
D3 DAN202U
Q16
R65 LP VIDEO EQ (VHS)
R65 SP VIDEO EQ (VHS)
Q16 DTC144EU
Q28 DTC114EU
CN6
SWD5V
GND
SWD12V
From 1 8 REGULATOR (2) CN6 (Page 3-14)
CN2
PB COLOR
GND
REC COLOR
From/To 0 5 VIDEO UNIT CN501 (Page 3-31)
CN5
SP/LP
VHS/S VHS
DRUM FF
COLOR ROT
SYNC
GND
SPECIAL PB
PILOT DET(COMP)
From/To 0 5 VIDEO UNIT CN503 (Page 3-31)
CN3
PB FM
GND
REC FM
From/To 0 5 VIDEO UNIT CN504 (Page 3-33)
SWD 12V
Q21 2SA1577(QR)
Q19 2SA1577(QR)
Q23 2SC4081(QRS)
Q24
SWD 5V
Q20 DTC124EU
D4 DAN202U
D6 DAN202U
D5 DAN202U
Q24 2SC4081(QRS)
CN4
REC
REC START
HEAD SELECT
BEST SEARCH
From/To 0 4 MECHACON(A/S/M) CN607 (Page 3-22)
Q30 DTA124EU
Q31 DTC144MU
R90 LP REC COLOUR
R91 SP REC COLOUR
R23 REC FM ADJ
C27 100/16
VTC
START
MUTE
COLOR AMP
S VHS
SP

3.24 PAUSE TERMINAL, JACK AND FLYING ERASE SCHEMATIC DIAGRAMS

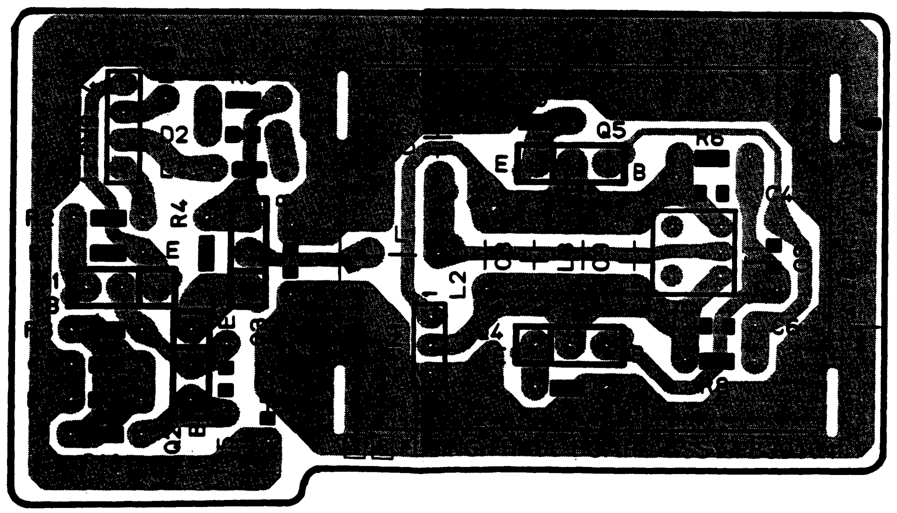

FROM/TO 1 0
VIDEO INT
(Page 3-34)
VIDEO IN
GND (VIDEO IN)
VIDEO OUT
GND (VIDEO OUT)
CN1
JA3
VIDEO OUT
JA1
VIDEO IN
3 6 JACK
TO
0 4
A/S/M
CN611
(Page 3-21)
PAUSE CTL
GND
JA1
PAUSE CTL
3 8 PAUSE TERMINAL
4 6 FLYING ERASE
Q1
2SA933S
Q2
2SC1741S(QR)
Q3
2SA933S(Q)
From/To 0 4
A/S/M(MECHACON)
CN613
(Page 3-21)
CN2
REC
FE CTL
GND
SWD 12V
0.4(12.2)
R2
4.7K
11.4(12.2)
R1
47K
12.0(0)
12.0(12.2)
R3
2.2K
R10
100
8.5(0)
7.8(0)
C1
0.01
D1
UZ8.2BSC
R4
47K
L4
100
D2
R5
22K
7.1(0)
7.7(0)
L1
56
C2
0.012
C9
33P
C8
180P
L3
3.3
L2
3.3
Q4
2.0(0)
1.2(0)
R6
100K
C4
82P
R7
120
From/To 4 2
PRE AMP
CN2
(Page 3-60)
CN1
FLYING ERASE
FLYING ERASE
GND
7.6(0)
1.9(0)
R8
100K
C6
82P
R9
120
C3
56P
Q5
2SD639R
Q4
2SD639R
5
4
3
2
1
A
B
C
D

3.25 PAUSE TERMINAL, JACK AND FLYING ERASE CIRCUIT BOARDS

—PAUSE TERMINAL—

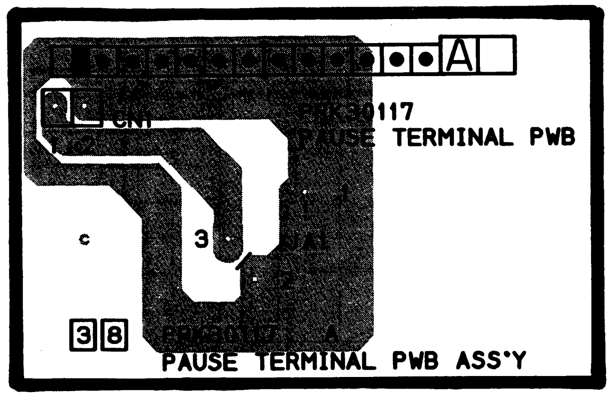

A
117
TERMINAL PWB
CN1
3
c
3 8
PAUSE TERMINAL PWB ASS'Y

— FLYING ERASE —

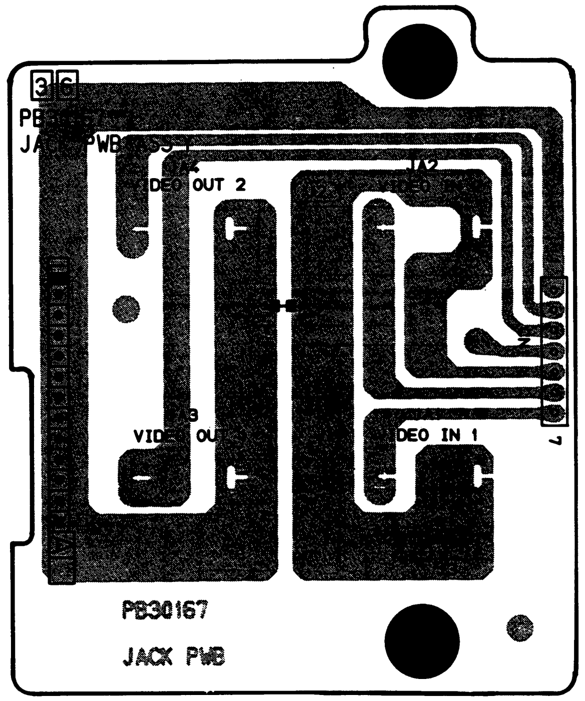

D2
Q5
R6
E
B
R4
L2

3.25 PAUSE TERMINAL, JACK AND FLYING ERASE CIRCUIT BOARDS

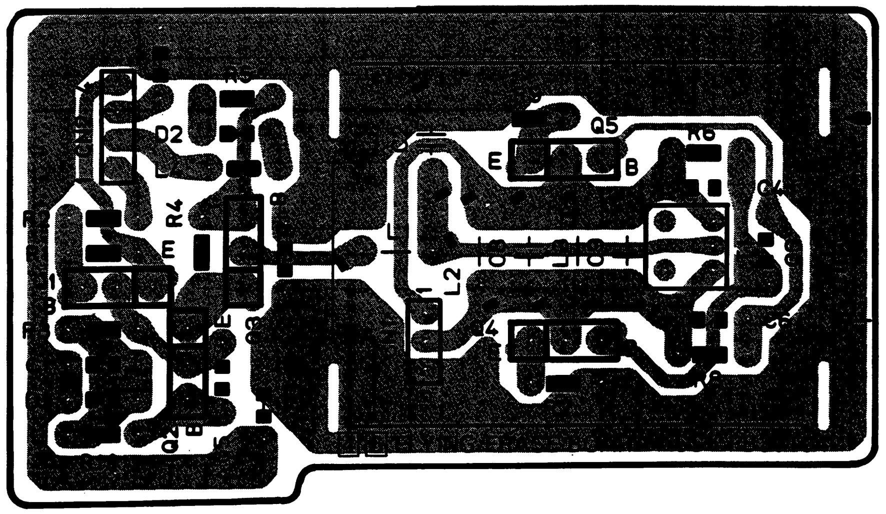
– PAUSE TERMINAL –


A
CN1
30117
PAUSE TERMINAL PWB
c
3
38
PAUSE TERMINAL PWB ASS'Y

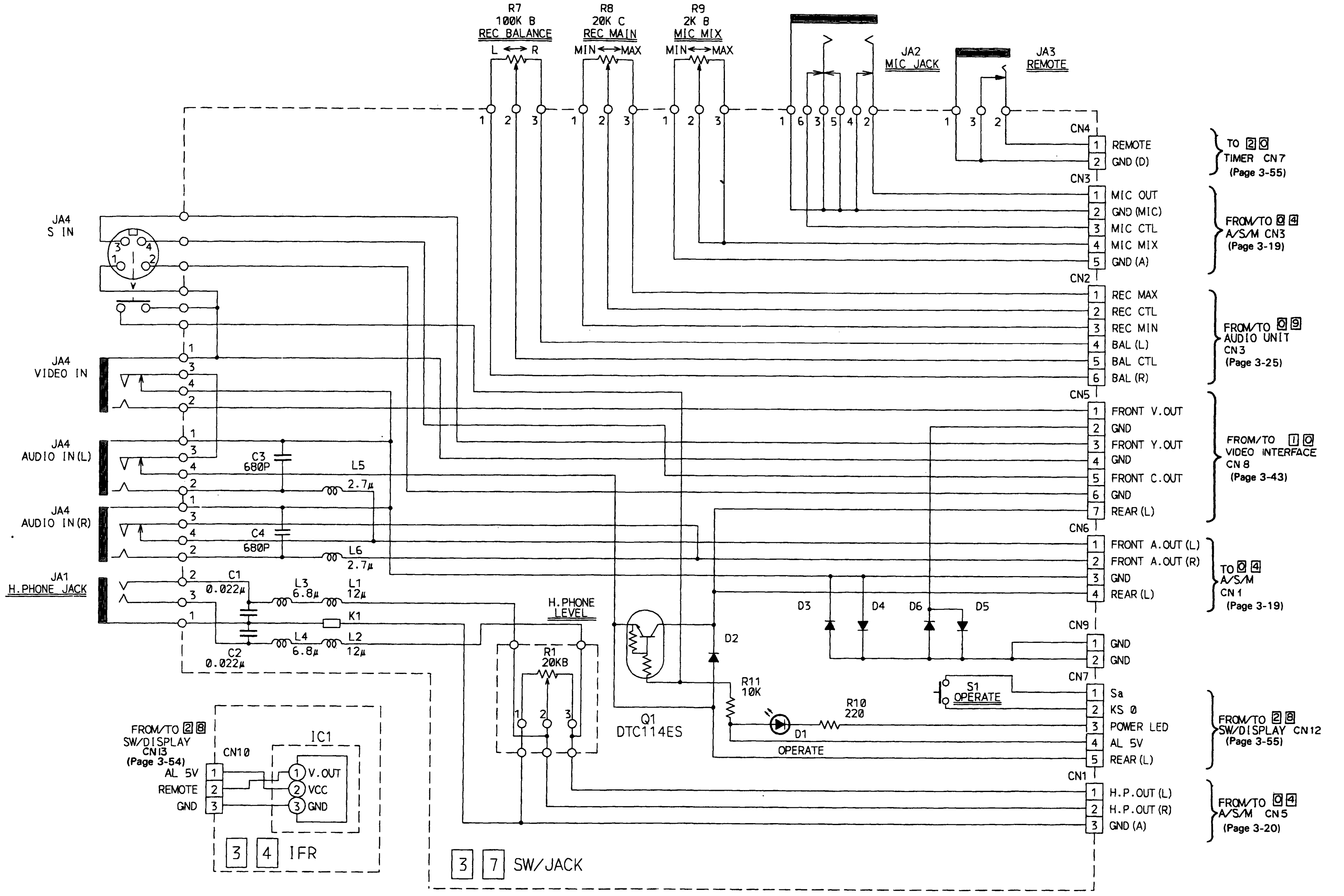
– JACK –


36
VIDEO OUT 2
VIDEO OUT
VIDEO IN 1
7
PB30167
JACK PWB

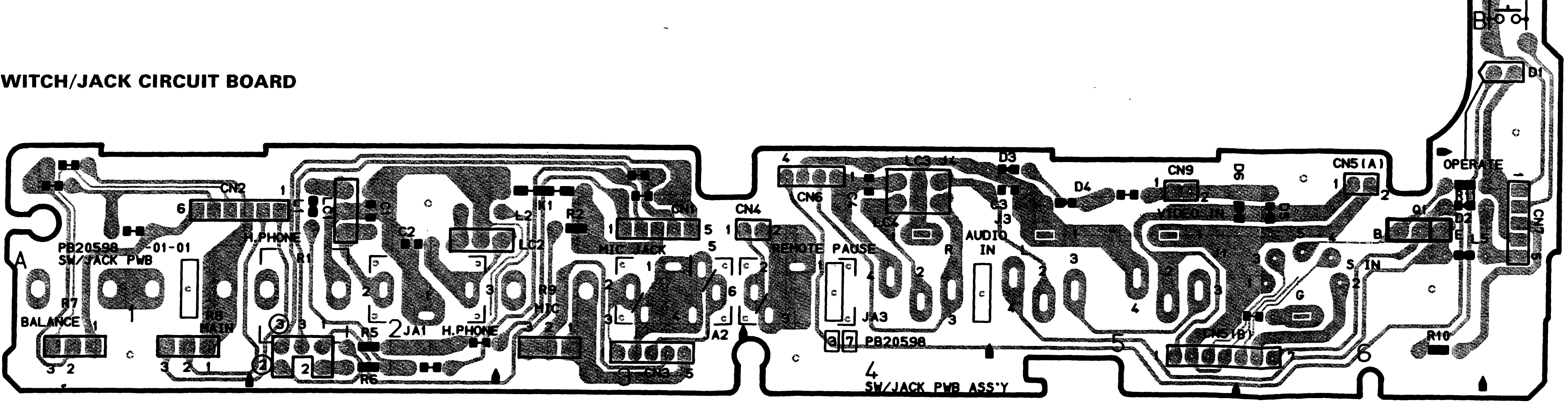
— FLYING ERASE —

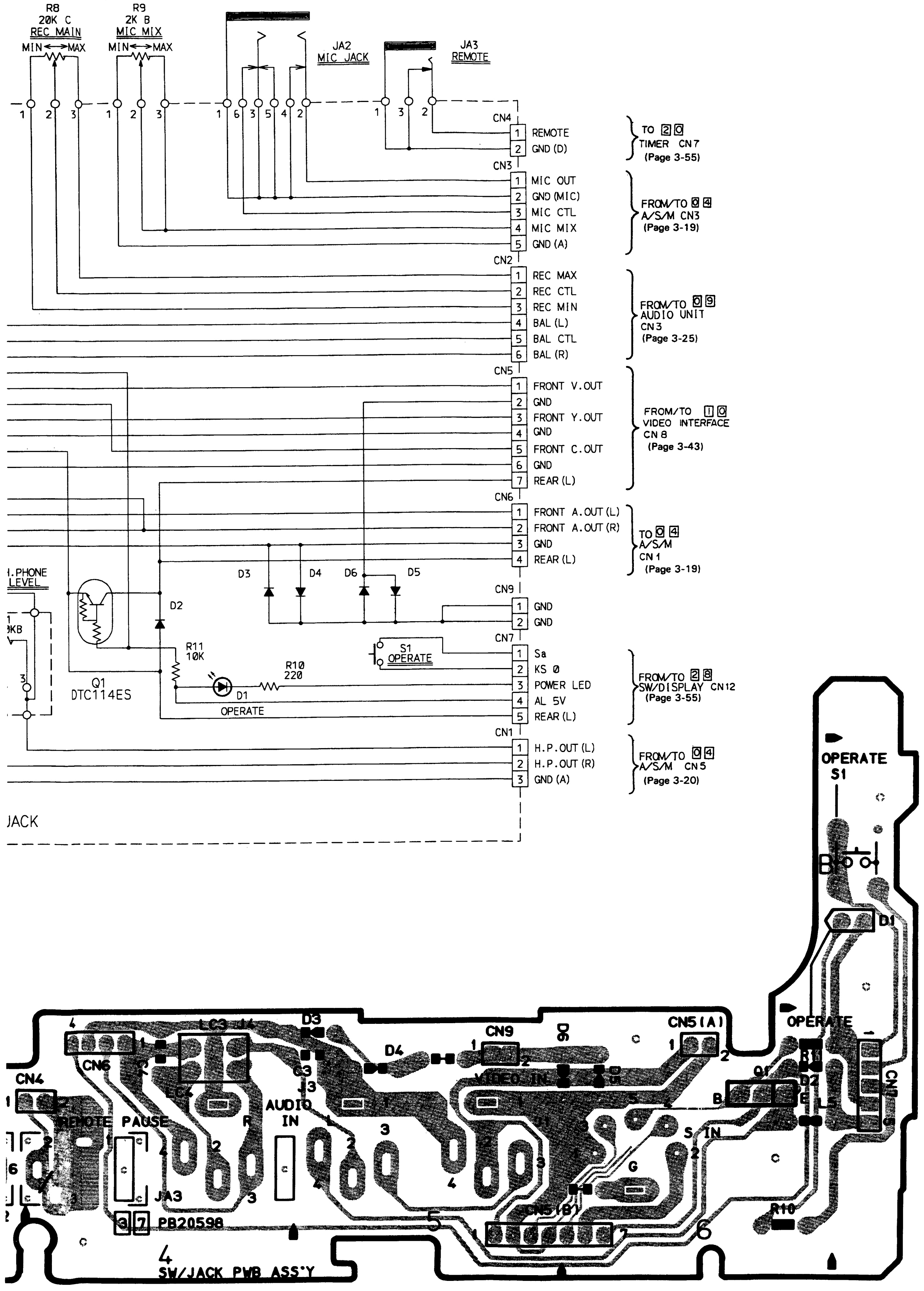

D2
R4
E
Q5
E
B
R6
C4
L2

3.26 SW/JACK SCHEMATIC DIAGRAMS

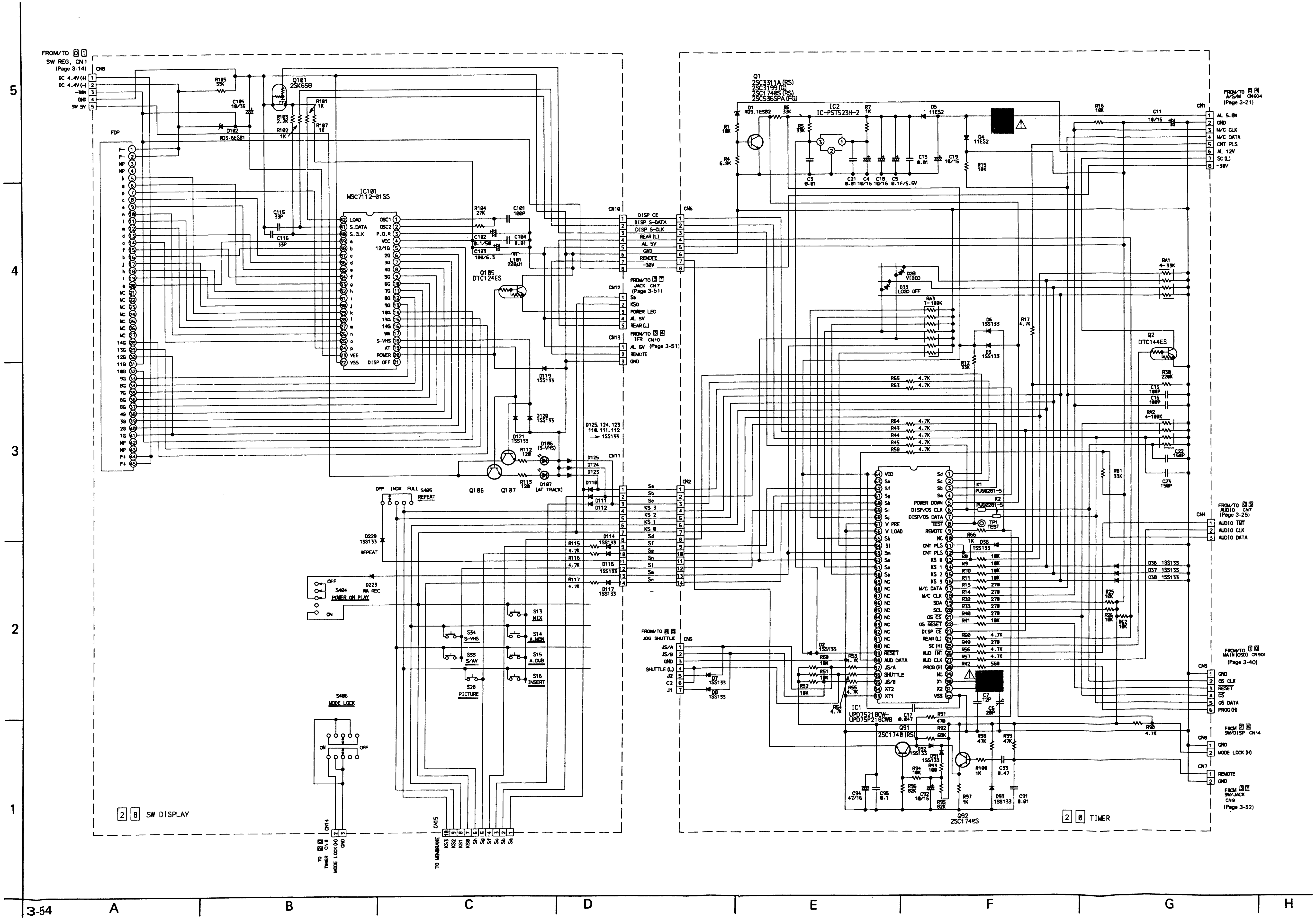

R7 100K B REC BALANCE L R
R8 20K C REC MAIN MIN MAX
R9 2K B MIC MIX MIN MAX
JA2 MIC JACK
JA3 REMOTE
JA4 S IN
JA4 VIDEO IN
JA4 AUDIO IN(L)
JA4 AUDIO IN(R)
JA1 H.PHONE JACK
C3 680P
C4 680P
L5 2.7μ
L6 2.7μ
C1 0.022μ
C2 0.022μ
L3 6.8μ
L4 6.8μ
L1 12μ
L2 12μ
K1
H.PHONE LEVEL
R1 20KB
Q1 DTC114ES
D2
D3 D4 D6 D5
R11 10K
R10 220
D1 OPERATE
S1 OPERATE
CN4 1 REMOTE 2 GND (D)
TO 2 0 TIMER CN7 (Page 3-55)
CN3 1 MIC OUT 2 GND (MIC) 3 MIC CTL 4 MIC MIX 5 GND (A)
FROM/TO 0 4 A/S/M CN3 (Page 3-19)
CN2 1 REC MAX 2 REC CTL 3 REC MIN 4 BAL (L) 5 BAL CTL 6 BAL (R)
FROM/TO 0 9 AUDIO UNIT CN3 (Page 3-25)
CN5 1 FRONT V.OUT 2 GND 3 FRONT Y.OUT 4 GND 5 FRONT C.OUT 6 GND 7 REAR (L)
FROM/TO 1 0 VIDEO INTERFACE CN8 (Page 3-43)
CN6 1 FRONT A.OUT (L) 2 FRONT A.OUT (R) 3 GND 4 REAR (L)
TO 0 4 A/S/M CN1 (Page 3-19)
CN9 1 GND 2 GND
CN7 1 Sa 2 KS 0 3 POWER LED 4 AL 5V 5 REAR (L)
FROM/TO 2 8 SW/DISPLAY CN12 (Page 3-55)
CN1 1 H.P.OUT (L) 2 H.P.OUT (R) 3 GND (A)
FROM/TO 0 4 A/S/M CN5 (Page 3-20)
FROM/TO 2 8 SW/DISPLAY CN13 (Page 3-54)
CN10 1 AL 5V 2 REMOTE 3 GND
IC1 1 V.OUT 2 VCC 3 GND
3 4 IFR
3 7 SW/JACK

3.27 SWITCH/JACK CIRCUIT BOARD


PB20598-01-01 SW/JACK PWB
R7 BALANCE
R8 MAIN
CN2
H.PHONE
R1
JA1 H.PHONE
R5
R6
C2
L2
K1
R2
LC2
R9 MIC
MIC JACK
CN10
CN3
A2
CN4
REMOTE PAUSE
JA3
3 7 PB20598
SW/JACK PWB ASS'Y
CN6
LC3
D3
C3
J3
AUDIO IN
D4
CN9
D6
VIDEO IN
S IN
CN5(A)
CN5(B)
OPERATE
Q1
D2
CN7
D1
R10


R8
20K C
REC MAIN
MIN↔MAX
R9
2K B
MIC MIX
MIN↔MAX
JA2
MIC JACK
JA3
REMOTE
CN4
1 REMOTE
2 GND (D)
TO 20
TIMER CN7
(Page 3-55)
CN3
1 MIC OUT
2 GND (MIC)
3 MIC CTL
4 MIC MIX
5 GND (A)
FROM/TO 04
A/S/M CN3
(Page 3-19)
CN2
1 REC MAX
2 REC CTL
3 REC MIN
4 BAL (L)
5 BAL CTL
6 BAL (R)
FROM/TO 09
AUDIO UNIT
CN3
(Page 3-25)
CN5
1 FRONT V.OUT
2 GND
3 FRONT Y.OUT
4 GND
5 FRONT C.OUT
6 GND
7 REAR (L)
FROM/TO 10
VIDEO INTERFACE
CN 8
(Page 3-43)
CN6
1 FRONT A.OUT (L)
2 FRONT A.OUT (R)
3 GND
4 REAR (L)
TO 04
A/S/M
CN 1
(Page 3-19)
H.PHONE
LEVEL
D3
D4
D6
D5
D2
CN9
1 GND
2 GND
S1
OPERATE
CN7
1 Sa
2 KS 0
3 POWER LED
4 AL 5V
5 REAR (L)
FROM/TO 28
SW/DISPLAY CN12
(Page 3-55)
R11
10K
R10
220
D1
OPERATE
Q1
DTC114ES
CN1
1 H.P.OUT (L)
2 H.P.OUT (R)
3 GND (A)
FROM/TO 04
A/S/M CN5
(Page 3-20)
JACK
OPERATE
S1
D1
OPERATE
CN5 (A)
CN9
D6
D4
D3
LC3 J4
CN6
CN4
REMOTE
PAUSE
LC4
C3
J3
AUDIO
IN
VIDEO IN
R
L
Q1
B
E
R11
D2
L5
CN7
S IN
G
CN5 (B)
R10
JA3
3 7 PB20598
5
6
4
SW/JACK PWB ASS'Y

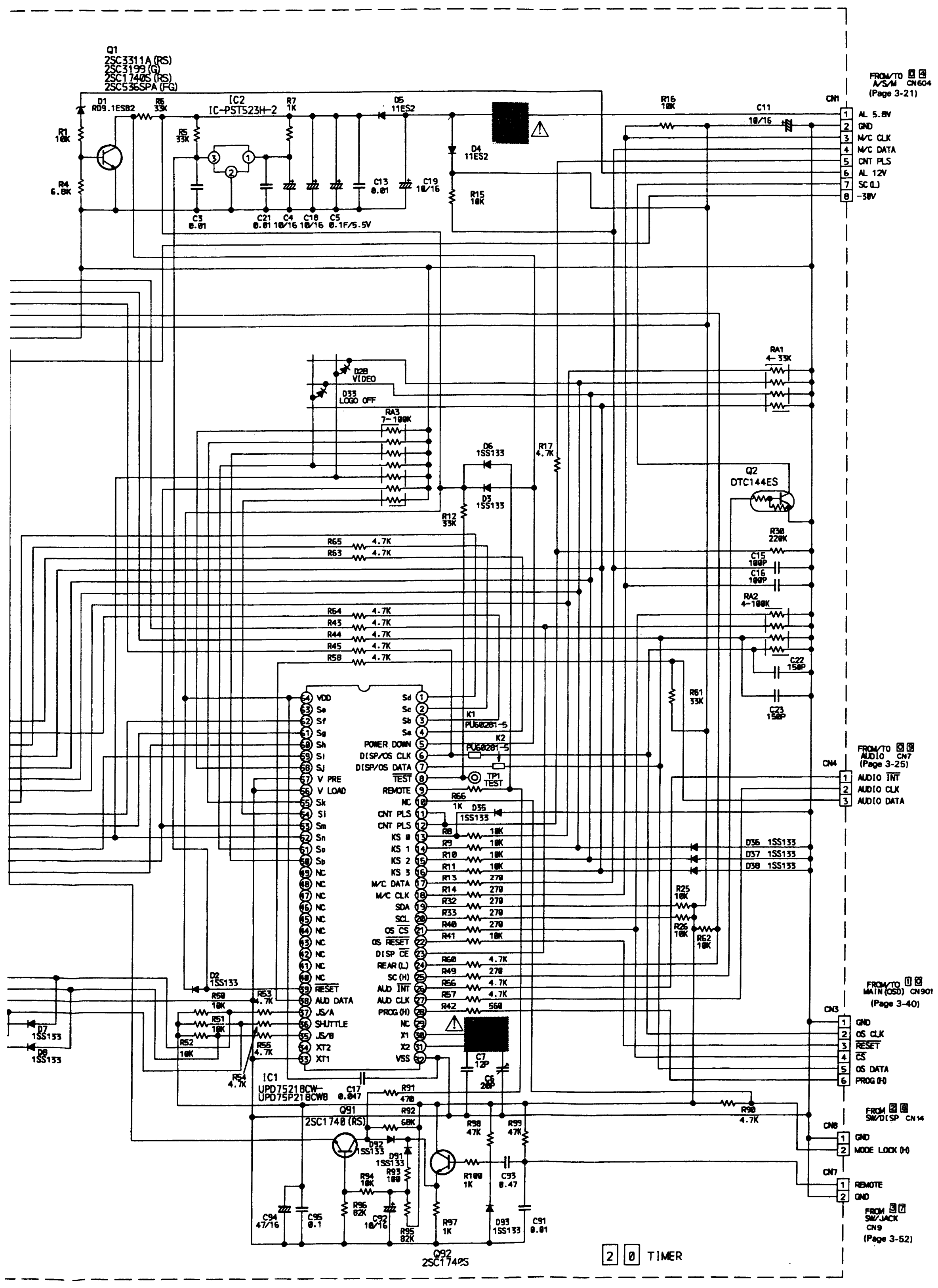
3.28 TIMER AND SWITCH/DISPLAY SCHEMATIC DIAGRAMS


FROM/TO 2 1 SW REG. CN1 (Page 3-14)
CN8
DC 4.4V(+)
DC 4.4V(-)
-30V
GND
SW 5V
FDP
Q101 2SK658
D102 RD3.6ESB1
IC101 MSC7112-01SS
Q105 DTC124ES
Q106
Q107
D106 (S-VHS)
D107 (AT TRACK)
D119 1SS133
D120 1SS133
D121 1SS133
D125, 124, 123 110, 111, 112 → 1SS133
CN10
DISP CE
DISP S-DATA
DISP S-CLK
REAR (L)
AL 5V
GND
REMOTE
-30V
CN12
FROM/TO 3 7 JACK CN7 (Page 3-51)
POWER LED
CN13
FROM/TO 3 4 IFR CN10
AL 5V (Page 3-51)
CN11
S405 REPEAT
OFF INDX FULL
D229 1SS133 REPEAT
S404 POWER ON PLAY
D223 WA REC
OFF
ON
S13 MIX
S14 A.MON
S15 A.DUB
S16 INSERT
S34 S-VHS
S35 S/AV
S28 PICTURE
S406 MODE LOCK
CN14
TO 2 0 TIMER CN8
MODE LOCK (H)
GND
CN15
TO MEMBRANE
2 8 SW DISPLAY
Q1 2SC3311A(RS) 2SC3199(G) 2SC1740S(RS) 2SC536SPA(FG)
IC2 IC-PST523H-2
D1 RD9.1ESB2
D4 11ES2
D5 11ES2
CN1
FROM/TO 3 3 A/S/M CN604 (Page 3-21)
AL 5.8V
GND
M/C CLK
M/C DATA
CNT PLS
AL 12V
SC (L)
-30V
CN6
CN2
D28 VIDEO
D33 LOGO OFF
Q2 DTC144ES
CN4
FROM/TO 3 5 AUDIO CN7 (Page 3-25)
AUDIO INT
AUDIO CLK
AUDIO DATA
CN5
FROM/TO 8 8 JOG SHUTTLE
JS/A
JS/B
GND
SHUTTLE (L)
J2
C2
J1
IC1 UPD75218CW- UPD75P218CW8
K1 PU60201-5
K2 PU60201-5
TP1 TEST
Q91 2SC1740 (RS)
Q92 2SC1740S
CN3
FROM/TO 0 0 MAIN (OSD) CN901 (Page 3-40)
GND
OS CLK
RESET
CS
OS DATA
PROG (H)
CN8
FROM 2 8 SW/DISP CN14
MODE LOCK (H)
CN7
REMOTE
FROM 3 7 SW/JACK CN9 (Page 3-52)
2 0 TIMER
1
2
3
4
5
A
B
C
D
E
F
G
H

– DC VOLT

TIMER <20

SYMBOL No.	RE
INTEGRATED	
IC1	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64
IC2	1 2 3
TRANSI	
Q1	B C E
Q2	B C E
Q91	B C E
Q92	B C E


Q1
2SC3311A(RS)
2SC3199(G)
2SC1740S(RS)
2SC536SPA(FG)
IC2
IC-PST523H-2
D5 11ES2
D4 11ES2
FROM/TO 1 8 A/S/M CN604 (Page 3-21)
CN1
AL 5.8V
GND
M/C CLK
M/C DATA
CNT PLS
AL 12V
SC (L)
-30V
D28 VIDEO
D33 LOGO OFF
Q2 DTC144ES
FROM/TO 0 8 AUDIO CN7 (Page 3-25)
CN4
AUDIO INT
AUDIO CLK
AUDIO DATA
FROM/TO 0 8 MAIN (OSD) CN901 (Page 3-40)
CN3
GND
OS CLK
RESET
CS
OS DATA
PROG (H)
FROM 2 8 SW/DISP CN14
CN8
GND
MODE LOCK (H)
CN7
REMOTE
GND
FROM 0 8 SW/JACK CN9 (Page 3-52)
IC1
UPD75218CW-
UPD75P218CWB
Q91
2SC1740 (RS)
Q92
2SC1740S
2 0 TIMER

— DC VOLTAGE —

TIMER <20>

SYMBOL	No.	REC	PB
INTEGRATED CIRCUIT			
IC1	1	0.3	0.3
	2	0.7	0.7
	3	1.7	1.7
	4	1.2	1.2
	5	0.0	0.0
	6	4.9	4.9
	7	0.5	0.5
	8	5.2	5.2
	9	4.6	4.6
	10	0.0	0.0
	11	5.1	5.1
	12	5.1	5.1
	13	0.0	0.0
	14	0.0	0.0
	15	0.0	0.0
	16	0.0	0.0
	17	4.2	4.2
	18	4.7	4.7
	19	4.9	4.9
	20	5.0	5.0
	21	3.6	3.6
	22	5.2	5.2
	23	0.0	0.0
	24	0.7	0.7
	25	0.0	0.0
	26	5.0	5.0
	27	5.0	5.0
	28	0.0	0.0
	29		
	30	2.6	2.6
	31	2.4	2.4
	32	0.0	0.0
	33	0.0	0.0
	34		
	35	5.2	5.2
	36	0.0	0.0
	37	5.1	5.1
	38	5.2	5.2
	39	5.2	5.2
	40		
	41		
	42		
	43		
	44		
	45		
	46		
	47		
	48		
	49		
	50	0.5	0.5
	51	0.6	0.6
	52	0.0	0.0
	53	0.0	0.0
	54	0.0	0.0
	55	0.6	0.6
	56	1.6	1.6
	57	0.2	0.2
	58	0.0	0.0
	59	0.0	0.0
	60	0.0	0.0
	61	1.5	1.5
	62	1.6	1.6
	63		
	64	5.2	5.2
IC2	1	5.2	5.2
	2	0.0	0.0
	3	5.2	5.2
TRANSISTOR			
Q1	B	0.8	0.8
	C	0.0	0.0
	E	0.0	0.0
Q2	B	0.0	0.0
	C	5.4	5.4
	E	0.0	0.0
Q91	B	0.2	0.2
	C	0.2	0.2
	E	0.2	0.2
Q92	B	0.2	0.2
	C	0.2	0.2
	E	0.2	0.2

SYMBOL	No.	REC	PB
CONNECTOR			
CN1	1	5.9	5.9
	2	0.0	0.0
	3	0.3	0.3
	4	0.6	0.6
	5	5.2	5.2
	6	12.2	12.2
	7	5.5	5.5
	8	-29.8	-29.8
CN2	1	1.1	1.1
	2	1.5	1.5
	3	0.6	0.6
	4	0.2	0.2
	5	0.0	0.0
	6	0.2	0.2
	7	0.0	0.0
	8	0.6	0.6
	9	1.5	1.5
	10	1.5	1.5
	11	0.0	0.0
	12	0.0	0.0
	13	0.5	0.5
	14	0.0	0.0
CN3	1	0.0	0.0
	2	5.2	5.2
	3	5.2	5.2
	4	5.2	5.2
	5	0.0	0.0
	6	0.4	0.4
CN4	1	5.2	5.2
	2	5.2	5.2
	3	5.2	5.2
CN5	1	5.1	5.1
	2	5.1	5.1
	3	0.0	0.0
	4	0.0	0.0
	5	4.9	4.9
	6	0.0	0.0
	7	4.9	4.9
CN6	1	0.0	0.0
	2	0.0	0.0
	3	5.1	5.1
	4	0.7	0.7
	5	0.0	0.0
	6	0.0	0.0
	7	4.6	4.6
	8	-29.8	-29.8
CN7	1	0.0	0.0
	2	0.0	0.0
CN8	1	0.0	0.0
	2	0.0	0.0

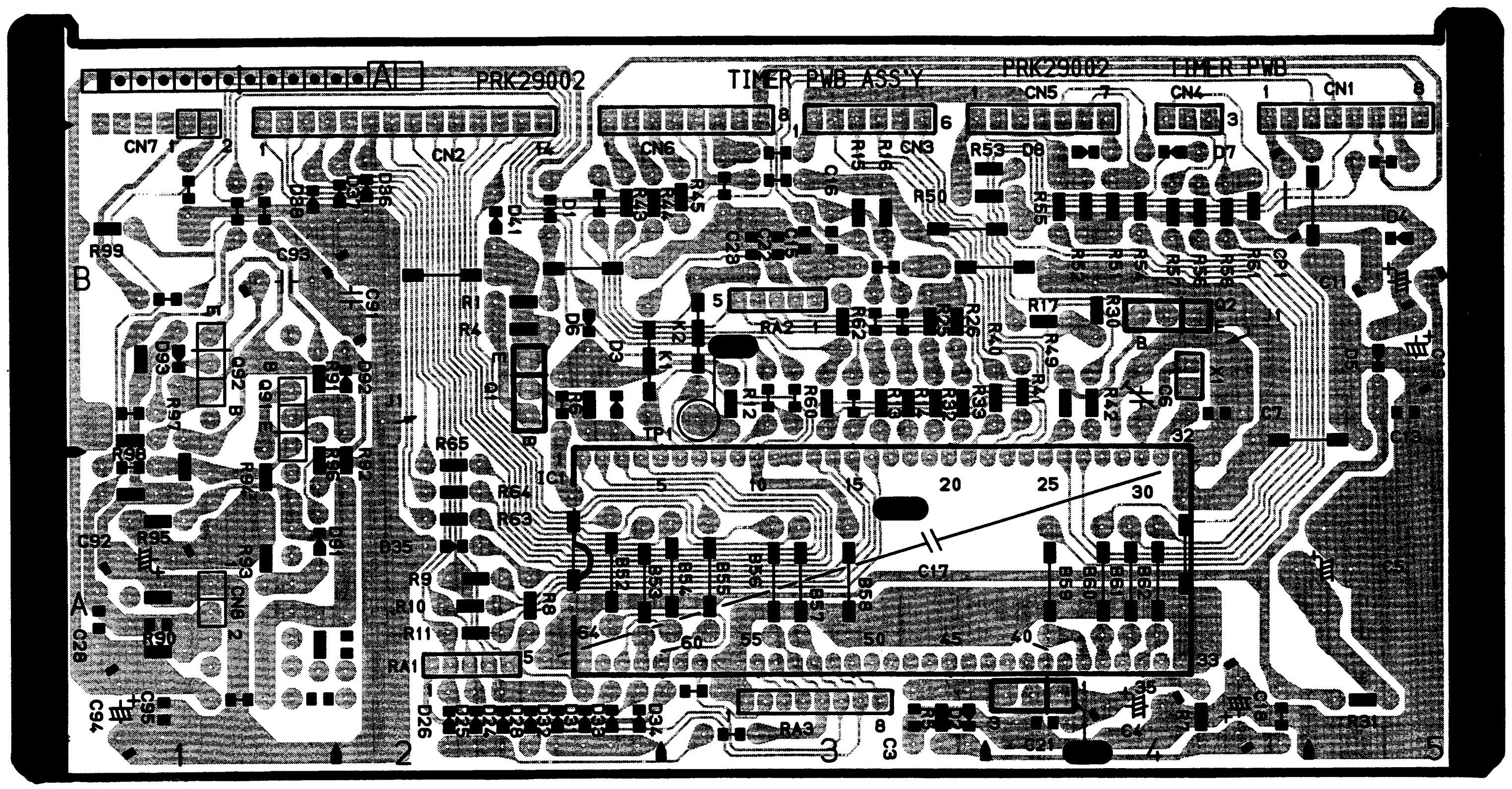
SW/DISPLAY <28>

SYMBOL	No.	REC	PB
INTEGRATED CIRCUIT			
IC101	1	2.3	2.3
	2	2.3	2.3
	3	4.6	4.6
	4	4.7	4.7
	5	-26.8	-26.8
	6	-26.7	-26.7
	7	-26.7	-26.7
	8	-26.7	-26.7
	9	-26.7	-26.7
	10	-26.7	-26.7
	11	-26.7	-26.7
	12	-26.7	-26.7
	13	-26.7	-26.7
	14	-26.7	-26.7
	15	-26.7	-26.7
	16	-26.7	-26.7
	17	0.0	0.0
	18	0.0	0.0
	19	4.0	4.0
	20	4.0	4.0
	21	0.2	0.2
	22	0.0	0.0
	23	-29.8	-29.8
	24	-26.8	-26.8
	25	-24.3	-24.3
	26	-26.8	-26.8
	27	-24.2	-24.2
	28	-26.8	-26.8
	29	-21.6	-21.6
	30	-24.2	-24.2
	31	-24.2	-24.2
	32	-24.2	-24.2
	33	-16.6	-16.6
	34	-16.6	-16.6
	35	-19.1	-19.1
	36	-24.2	-24.2
	37	-21.7	-21.7
	38	-16.6	-16.6
	39	-19.1	-19.1
	40	0.5	0.5
	41	0.5	0.5
	42	0.0	0.0
TRANSISTOR			
Q101	D	0.5	0.5
	S	0.0	0.0
	G	4.7	4.7
Q104	B	0.0	0.0
	C	3.2	3.2
	E	0.0	0.0
Q105	B	4.0	4.0
	C	0.2	0.2
	E	0.0	0.0
Q106	B	4.0	4.0
	C	5.5	5.5
	E	0.0	0.0
Q107	B	0.0	0.0
	C	5.5	5.5
	E	0.2	0.2
CONNECTOR			
CN8	1	-21.6	-21.6
	2	-26.0	-26.0
	3	-29.7	-29.7
	4	0.0	0.0
	5	5.4	5.4
CN10	1	0.0	0.0
	2	0.0	0.0
	3	5.1	5.1
	4	0.7	0.7
	5	0.0	0.0
	6	0.0	0.0
	7	4.6	4.6
	8	-29.8	-29.8

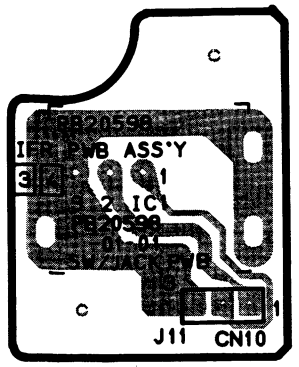
SYMBOL	No.	REC	PB
CN11	1	1.1	1.1
	2	1.5	1.5
	3	0.6	0.6
	4	0.2	0.2
	5	0.0	0.0
	6	0.2	0.2
	7	0.0	0.0
	8	0.6	0.6
	9	1.5	1.5
	10	1.5	1.5
	11	0.0	0.0
	12	0.0	0.0
	13	0.5	0.5
	14	0.0	0.0
CN12	1	4.0	4.0
	2	0.0	0.0
	3	0.2	0.2
	4	4.7	4.7
	5	0.7	0.7
CN13	1	4.7	4.7
	2	4.6	4.6
	3	0.0	0.0
CN14	1	0.0	0.0
	2	0.0	0.0

3.29 TIMER, SWITCH/DISPLAY AND IFR CIRCUIT BOARDS

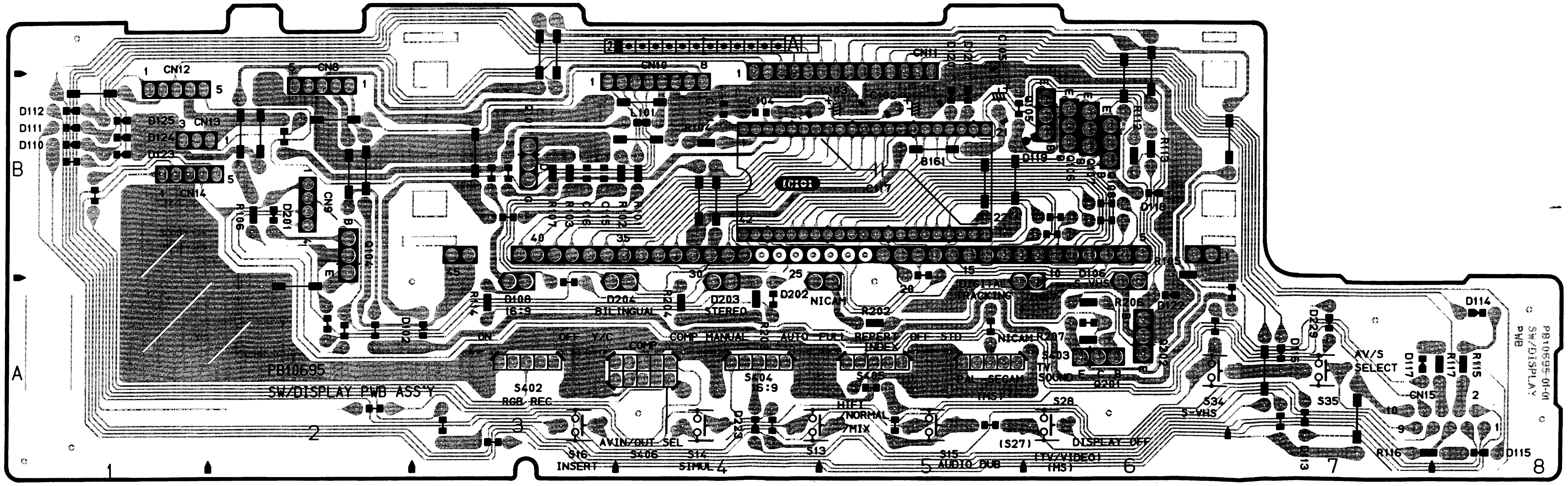
— TIMER —


PRK29002
TIMER PWB ASS'Y
PRK29002
TIMER PWB
CN7
CN2
CN6
CN3
CN5
CN4
CN1
IC1
TP1
RA1
RA2
RA3
C17
A
B
1
2
3
4
5

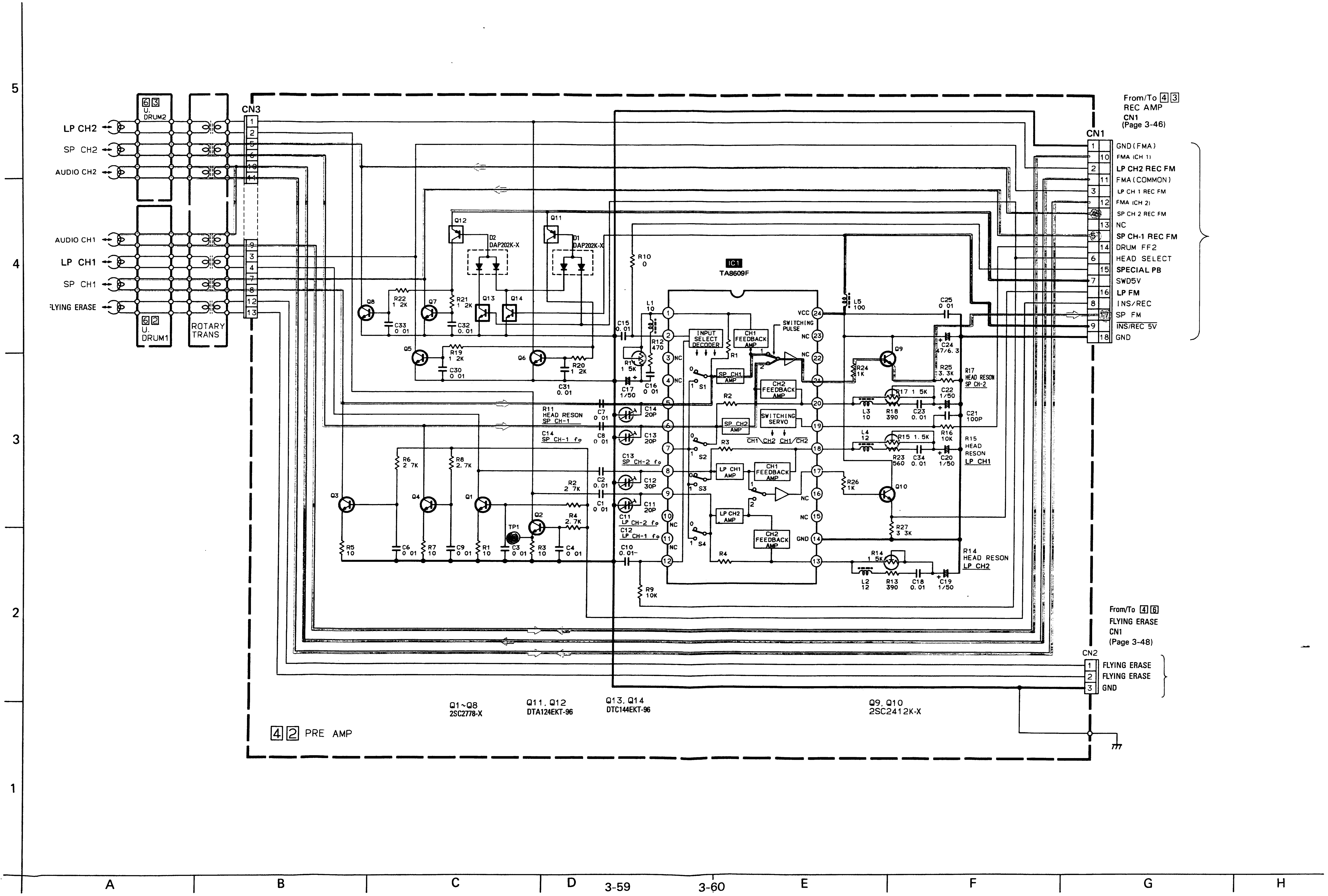
— IFR —


PRP20598
IFR PWB ASS'Y
IC
J11
CN10

— SW DISPLAY —


PB10695
SW/DISPLAY PWB ASS'Y
PB10695-01-01
SW/DISPLAY
PWB
CN12
CN8
CN10
CN11
CN13
CN14
CN9
CN15
IC101
D108
16:9
D204
BILINGUAL
D203
STEREO
D202
NICAM
DIGITAL TRACKING
D105
VHS
S402
RGB REC
S404
15:9
S405
HIFI
NORMAL
MIX
S403
TV SOUND
S401
S28
(S27)
DISPLAY OFF
S34
S-VHS
S35
AV/S SELECT
S16
INSERT
S406
AV IN/OUT SEL
S14
SIMUL
S13
S15
AUDIO DUB
(TV/VIDEO)
(HS)
D114
D115
A
B
1
2
3
4
5
6
7
8

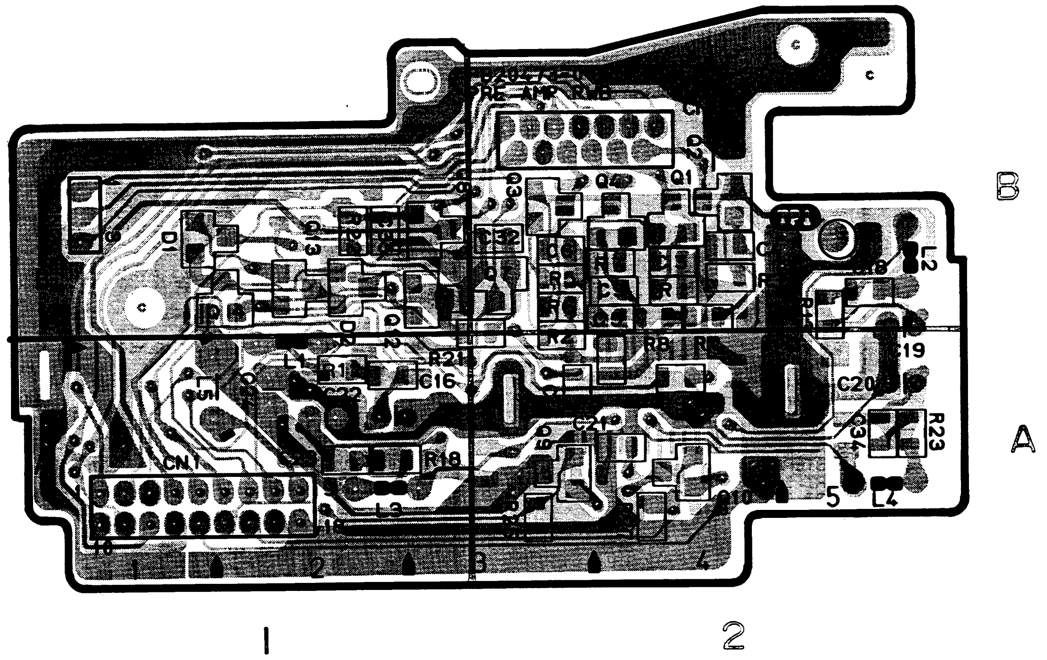
3.30 PRE AMP SCHEMATIC DIAGRAM



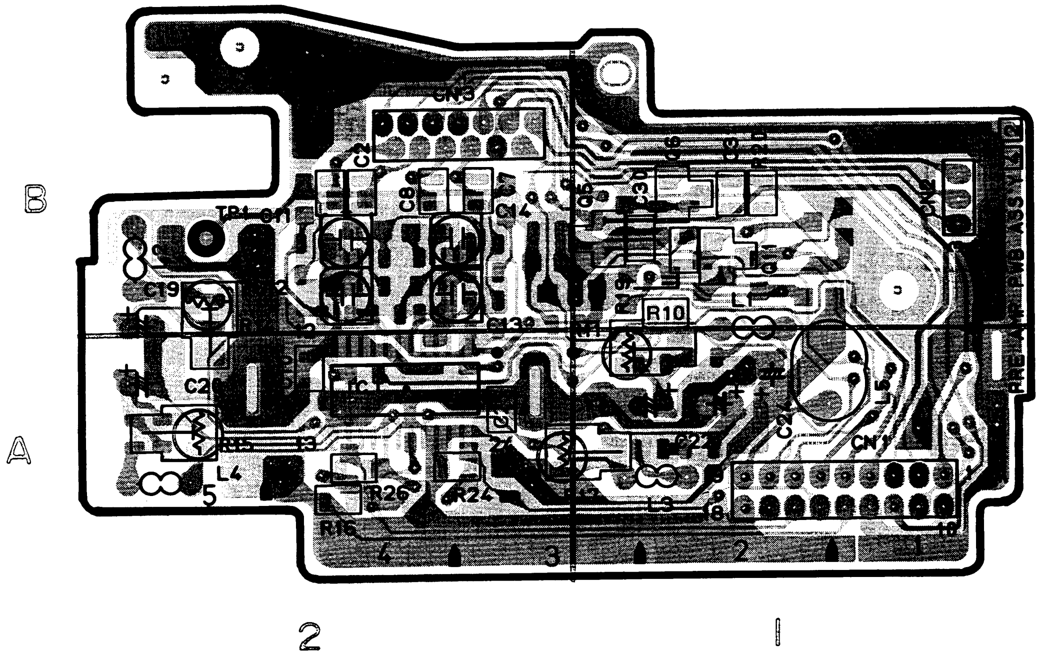
5
4
3
2
1
A
B
C
D
E
F
G
H
6 3
U. DRUM2
6 2
U. DRUM1
ROTARY TRANS
LP CH2
SP CH2
AUDIO CH2
AUDIO CH1
LP CH1
SP CH1
LYING ERASE
CN3
Q12
D2 DAP202K-X
Q11
D1 DAP202K-X
Q13
Q14
Q8
Q7
Q5
Q6
R22 1 2K
C33 0 01
R21 1 2K
C32 0 01
R19 1 2K
C30 0 01
R20 1 2K
C31 0 01
R10 0
IC1
TA8609F
L1 10
C15 0 01
R12 470
R11 1 5K
C17 1/50
C16 0 01
R11 HEAD RESON SP CH-1
C14 SP CH-1 fo
C7 0 01
C8 0 01
C14 20P
C13 20P
C13 SP CH-2 fo
C12 30P
C11 20P
C11 LP CH-2 fo
C12 LP CH-1 fo
C10 0.01
R9 10K
INPUT SELECT DECODER
CH1 FEEDBACK AMP
SWITCHING PULSE
SP CH1 AMP
CH2 FEEDBACK AMP
SWITCHING SERVO
SP CH2 AMP
CH1 CH2 CH1/CH2
LP CH1 AMP
CH1 FEEDBACK AMP
LP CH2 AMP
CH2 FEEDBACK AMP
R1
R2
R3
R4
S1
S2
S3
S4
VCC
NC
GND
L5 100
C25 0 01
Q9
C24 47/6.3
R24 1K
R25 3.3K
R17 HEAD RESON SP CH-2
R17 1 5K
C22 1/50
L3 10
R18 390
C23 0.01
C21 100P
R16 10K
L4 12
R15 1.5K
R15 HEAD RESON LP CH1
R23 560
C34 0.01
C20 1/50
R26 1K
Q10
R27 3 3K
R14 HEAD RESON LP CH2
R14 1 5K
L2 12
R13 390
C18 0.01
C19 1/50
R6 2 7K
R8 2.7K
Q3
Q4
Q1
Q2
TP1
R2 2 7K
C2 0.01
C1 0 01
R4 2.7K
R5 10
C6 0 01
R7 10
C9 0 01
R1 10
C3 0 01
R3 10
C4 0 01
From/To 4 3
REC AMP
CN1
(Page 3-46)
CN1
GND(FMA)
FMA (CH 1)
LP CH2 REC FM
FMA(COMMON)
LP CH 1 REC FM
FMA (CH 2)
SP CH 2 REC FM
NC
SP CH-1 REC FM
DRUM FF2
HEAD SELECT
SPECIAL PB
SWD5V
LP FM
INS/REC
SP FM
INS/REC 5V
GND
From/To 4 6
FLYING ERASE
CN1
(Page 3-48)
CN2
FLYING ERASE
FLYING ERASE
GND
Q1~Q8 2SC2778-X
Q11, Q12 DTA124EKT-96
Q13, Q14 DTC144EKT-96
Q9, Q10 2SC2412K-X
4 2 PRE AMP

3.31 PRE AMP CIRCUIT BOARD

— COMPONENT SIDE —
(A)


B
A
1
2
PRE AMP PCB
CN1
R18
C16
C19
C20
R23
L2
L3
L4
5

— CODUCTOR SIDE —
(B)


B
A
2
1
TP1
C19
C2
R10
R15
R16
R24
R26
L3
L4
CN1
5

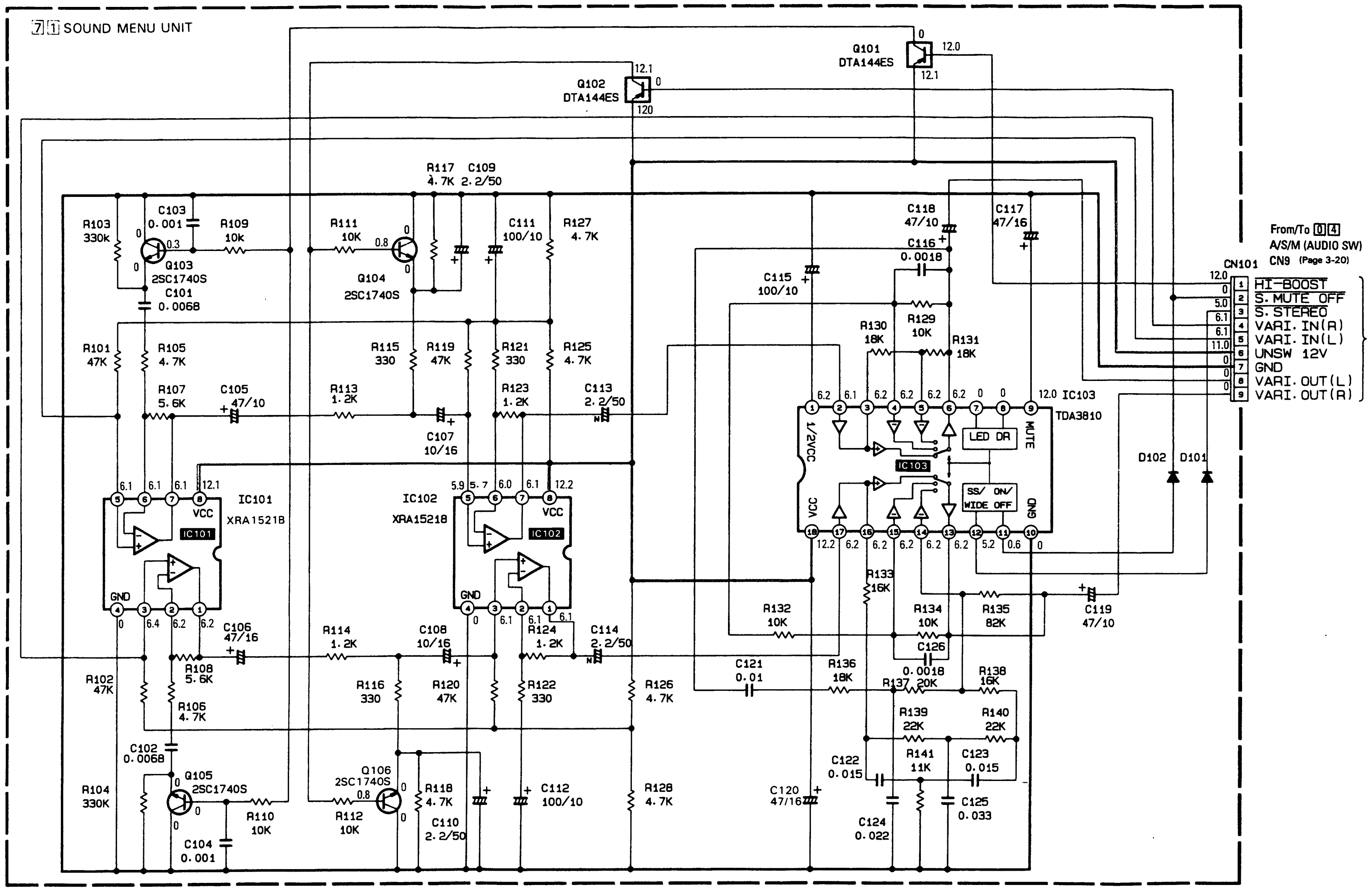
∘Address of chip parts

A-1D
— Address
— A : Discrete parts side
B : Chip parts side

REF No.	LOCATION
IC	
IC1	B-2A
TRANSISTOR	
Q1	A-2B
Q2	A-2B
Q3	A-2B
Q4	A-2B
Q5	B-1B
Q6	B-1B
Q7	A-2B
Q8	A-1B
Q9	A-2A
Q10	A-2A
Q11	B-1B
Q12	A-1B
Q13	A-1B
Q14	A-1B
DIODE	
D1	A-1B
D2	A-1B
RESISTOR	
R1	A-2B
R2	A-2A
R3	A-2B
R4	A-2A
R5	A-2B
R6	A-2B
R7	A-2A
R8	A-2A
R9	A-2A
R10	A-1A
R11	B-1A
R12	B-1A
R13	A-2A
R14	B-2A
R15	B-2A
R16	B-2A
R17	B-1A
R18	A-1A
R19	B-1B
R20	B-1B
R21	A-1A
R22	A-1B
R23	A-2A
R24	B-2A
R25	A-2A
R26	B-2A
R27	A-2A

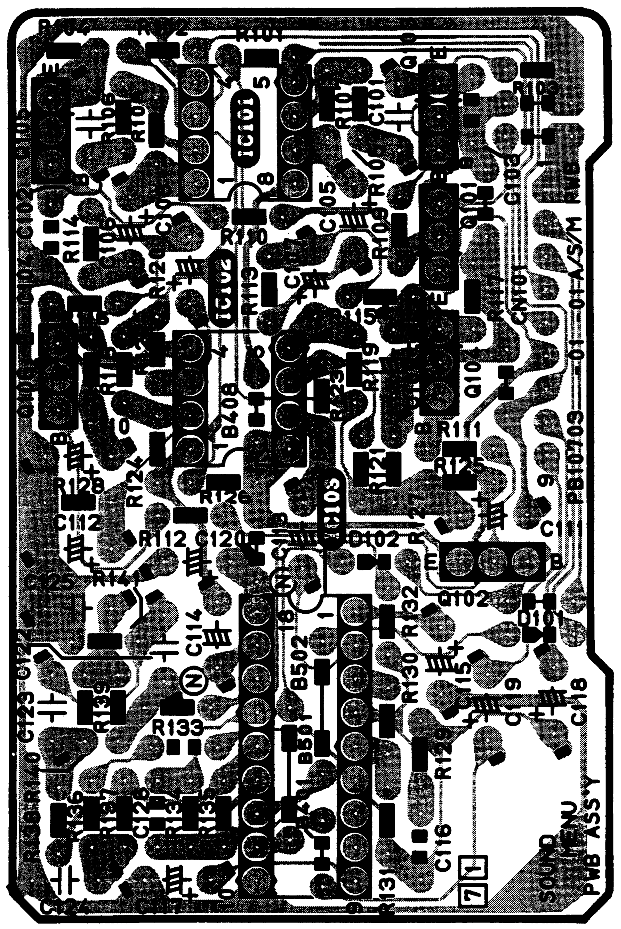
REF No.	LOCATION
CAPACITOR	
C1	B-2B
C2	B-2B
C3	A-2B
C4	A-2B
C6	A-2B
C7	B-2B
C8	B-2B
C9	A-2B
C10	B-2A
C11	B-2B
C12	B-2B
C13	B-2B
C14	B-2B
C15	A-2A
C16	A-1A
C18	A-2B
C21	A-2A
C23	A-1A
C25	B-2A
C30	B-1B
C31	B-1B
C32	A-2B
C33	A-1B
C34	A-2A

3.32 SOUND MENU SCHEMATIC DIAGRAM



7 1 SOUND MENU UNIT
Q101 DTA144ES
Q102 DTA144ES
Q103 2SC1740S
Q104 2SC1740S
Q105 2SC1740S
Q106 2SC1740S
IC101 XRA15218
IC102 XRA15218
IC103 TDA3810
1/2VCC
VCC
GND
MUTE
LED DR
SS/ ON/
WIDE OFF
D101
D102
R103 330k
C103 0.001
R109 10k
C101 0.0068
R111 10K
R117 4.7K
C109 2.2/50
C111 100/10
R127 4.7K
R101 47K
R105 4.7K
R107 5.6K
C105 47/10
R113 1.2K
R115 330
R119 47K
R121 330
R123 1.2K
R125 4.7K
C113 2.2/50
C107 10/16
C115 100/10
C118 47/10
C117 47/16
C116 0.0018
R130 18K
R129 10K
R131 18K
R102 47K
R108 5.6K
R106 4.7K
C106 47/16
R114 1.2K
C108 10/16
R124 1.2K
C114 2.2/50
R116 330
R120 47K
R122 330
R126 4.7K
C102 0.0068
R104 330K
R110 10K
C104 0.001
R112 10K
R118 4.7K
C110 2.2/50
C112 100/10
R128 4.7K
R132 10K
R133 16K
R134 10K
R135 82K
C119 47/10
C121 0.01
R136 18K
C126 0.0018
R137 20K
R138 16K
R139 22K
R140 22K
R141 11K
C122 0.015
C123 0.015
C120 47/16
C124 0.022
C125 0.033
CN101
From/To 0 4
A/S/M (AUDIO SW)
CN9 (Page 3-20)
1 HI-BOOST
2 S. MUTE OFF
3 S. STEREO
4 VARI. IN(R)
5 VARI. IN(L)
6 UNSW 12V
7 GND
8 VARI. OUT(L)
9 VARI. OUT(R)

3.33 SOUND MENU CIRCUIT BOARD

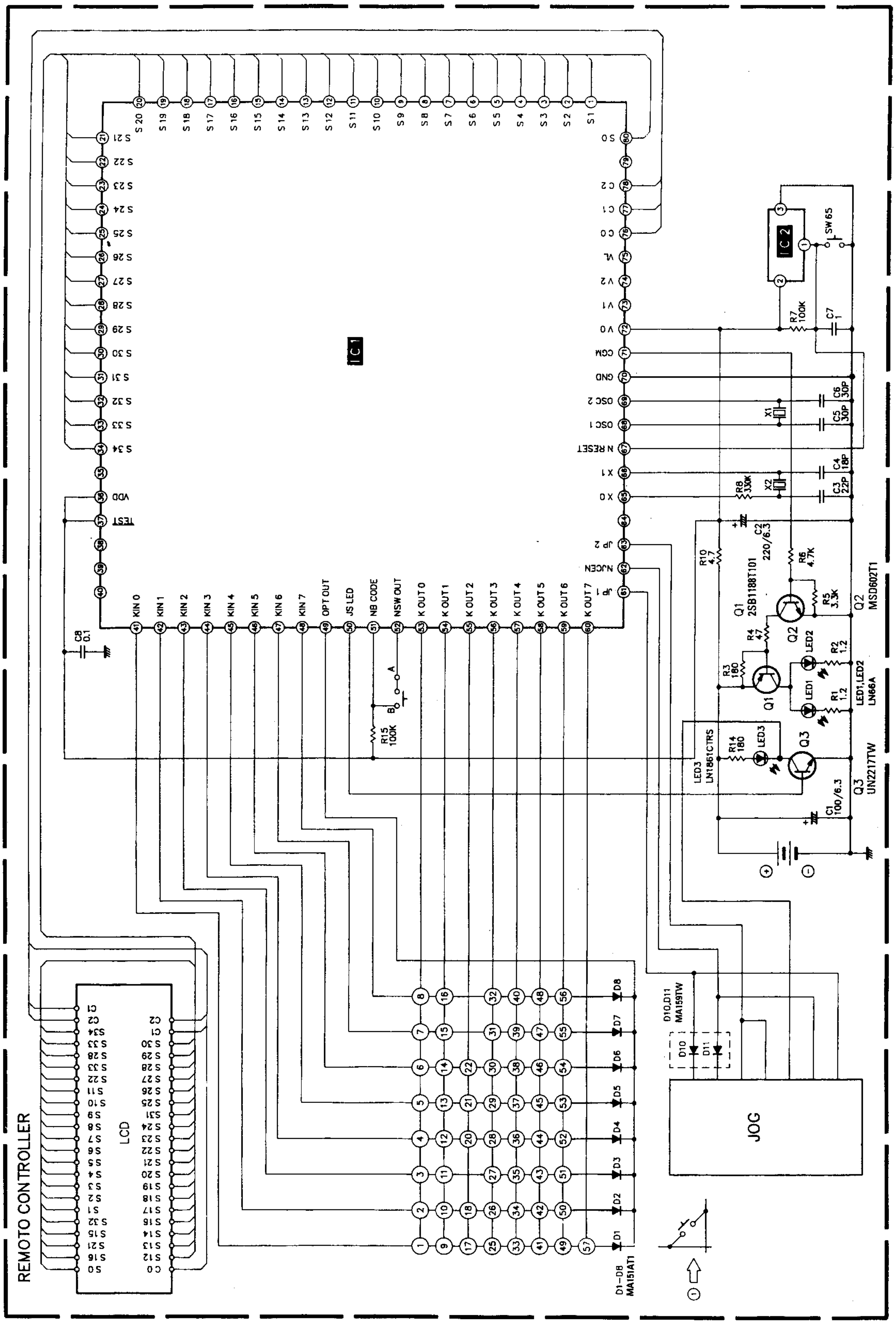


SOUND MENU PWB ASS'Y
PB10703
01-A/S/M
7 1
IC101
IC102
IC103
Q101
Q102
D101
D102

3.34 REMOTE CONTROL SCHEMATIC DIAGRAM

NOTES:

1. **All parts shown in this schematic are critical for safety.**
2. **This schematic is only for reference.**
   Avoid replacing individual parts.
   Replace the entire unit only.



5
4
3
2
1
IC 1
IC 2
SW65
S 0
S 1
S 2
S 3
S 4
S 5
S 6
S 7
S 8
S 9
S 10
S 11
S 12
S 13
S 14
S 15
S 16
S 17
S 18
S 19
S 20
S 21
S 22
S 23
S 24
S 25
S 26
S 27
S 28
S 29
S 30
S 31
S 32
S 33
S 34
VDD
TEST
KIN 0
KIN 1
KIN 2
KIN 3
KIN 4
KIN 5
KIN 6
KIN 7
OPT OUT
JS LED
NB CODE
NSW OUT
K OUT 0
K OUT 1
K OUT 2
K OUT 3
K OUT 4
K OUT 5
K OUT 6
K OUT 7
JP 1
NJCEN
JP 2
X O
X 1
N RESET
OSC 1
OSC 2
GND
CCM
V 0
V 1
V 2
VL
C 0
C 1
C 2
R7 100K
C7 1
C6 30P
C5 30P
X1
C4 18P
C3 22P
X2
R8 330K
R10 4.7
C2 220/6.3
R6 4.7K
R5 3.3K
Q1 2SB1188T101
Q2 MSD602T1
R4 47
R3 180
LED2
R2 1.2
R1 1.2
LED1
LED1,LED2 LN66A
R14 180
LED3
LED3 LN1861CTRS
Q3 UN2217TW
C1 100/6.3
C8 0.1
R15 100K
A
B
D1
D2
D3
D4
D5
D6
D7
D8
D1–D8 MA151AT1
D10
D11
D10,D11 MA159TW
JOG
LCD
REMOTO CONTROLLER

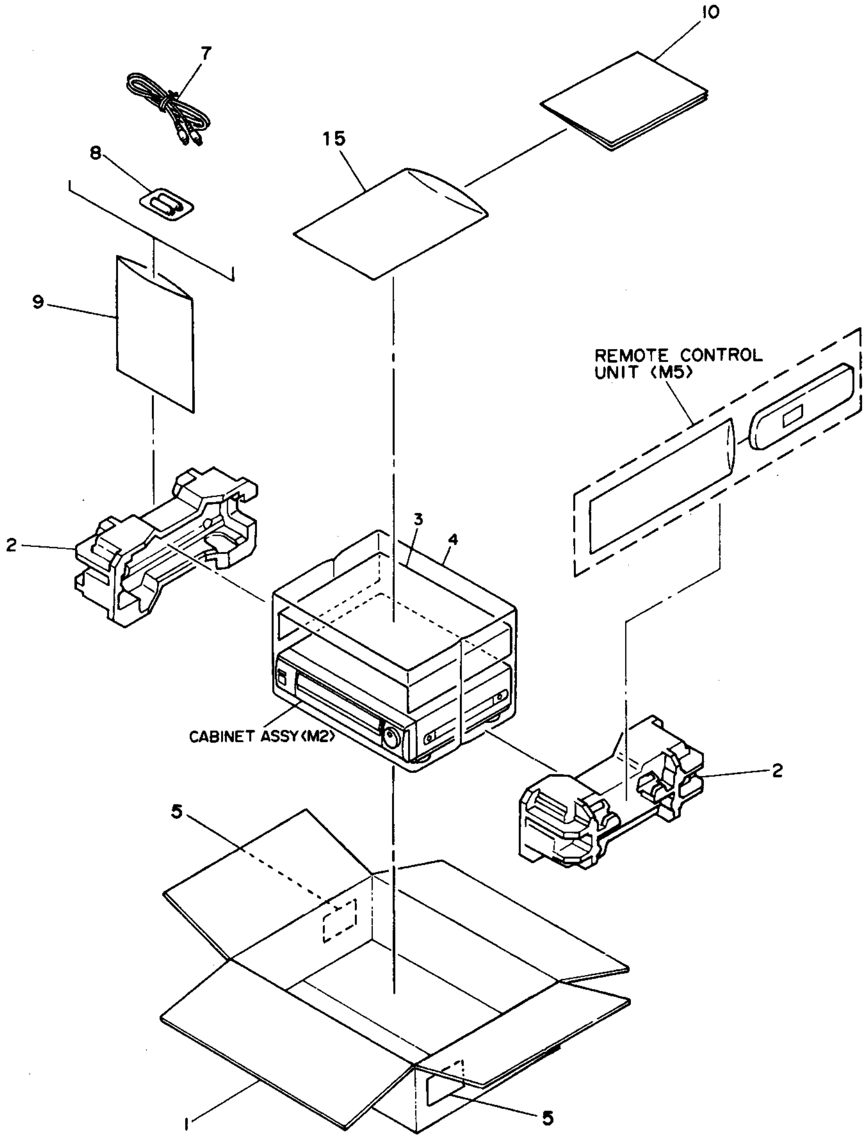
Key No.	Key MAME
1	TV STANDBY
2	TV/AUX
3	TV PROG ^
4	TV PROG v
5	TV VOL +
6	TV VOL –
7	0
8	1
9	2
10	3
11	4
12	5
13	6
14	7
15	8
16	9
17	VPS/CH
18	TIMED PAGE
19	
20	TV CODE
21	TRANS
22	CLOCK ADJ
23	
24	
25	REC
26	SCENE CTL
27	MENU/TEXT
28	SUMMER TIME ADJ
29	JOG/SHUTTLE
30	CANCEL
31	INDEX ←
32	SET –
33	SELECT
34	SET +
35	OPERATE
36	EJECT
37	INDEX(PAGE –)
38	STORE
39	PAUSE
40	V. SEARCH <<
41	SKIP/BLANK
42	V. SEARCH >>
43	REW
44	PLAY
45	F.F.
46	STOP
47	TV/VTR
48	TIMER
49	INTOR(PAGE +)
50	SP/LP
51	CH SEARCH
52	INDEX →
53	LARGE/NORMAL
54	SOUND MENU
55	PROG.
56	DISPLAY
57	OSD

SECTION 4
EXPLODED VIEWS AND PARTS LIST

SAFETY PRECAUTION

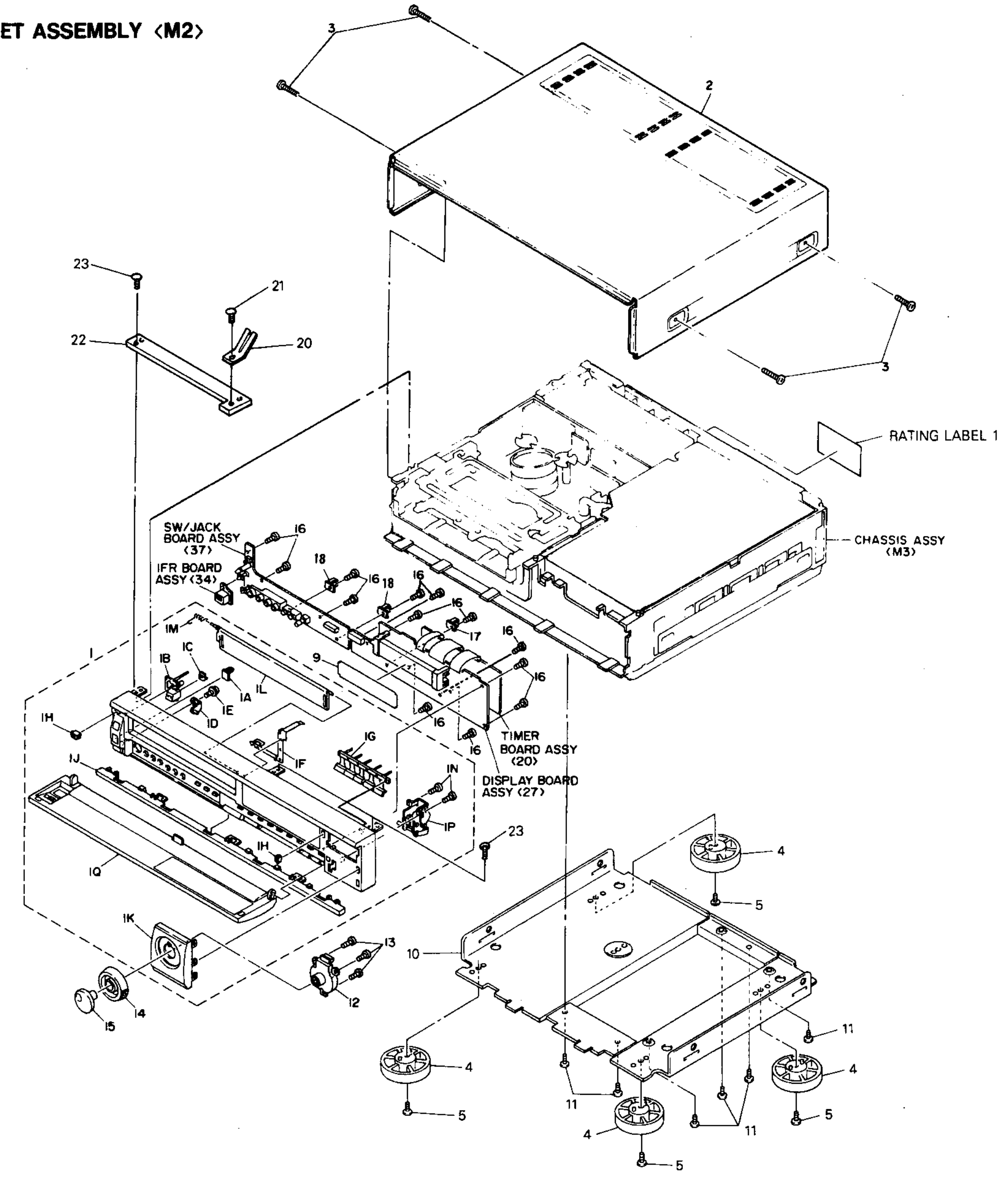
Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

4.1 PACKING ASSEMBLY < M1 >



#⚠ REF No.		PART No.	PART NAME, DESCRIPTION
************			
			PACKING ASSEMBLY <M1>
1		PRD39001	PACKING CASE
2		PQ34503A-2	CUSHION ASSY
3		PU57777	WADDING PAD
4		PQM30021-82	POLY BAG
5		PUP40619	SERIAL NO.STICKER, X2
7		PU60111	DIN CORD
	OR	PU61113	S.CABLE
8		UM-3DJ2P	BATTERY, X2
9		QPGA020-02005	POLY BAG
⚠ 10		PGD30002-435	INSTRUCTIONS
15		QPGA025-03505	POLY BAG

4.2 CABINET ASSEMBLY <M2>

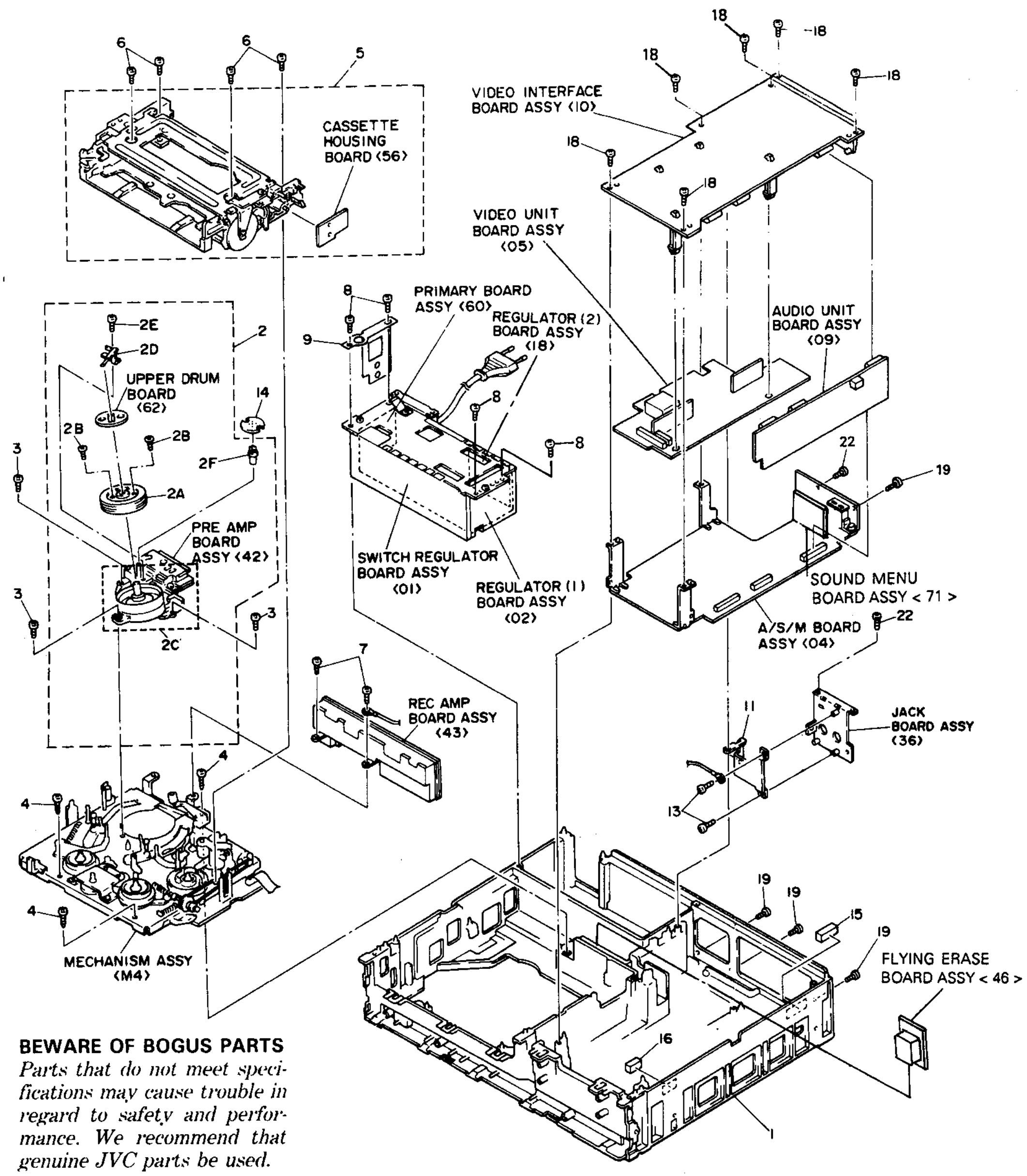

3
2
3
23
21
20
22
RATING LABEL 1
SW/JACK BOARD ASSY (37)
IFR BOARD ASSY (34)
16
18
16
18
16
16
17
16
CHASSIS ASSY (M3)
1M
1
1B
1C
1L
1A
1E
1D
9
16
1H
1G
1F
16
TIMER BOARD ASSY (20)
DISPLAY BOARD ASSY (27)
1J
1N
1P
1H
23
4
5
1Q
10
1K
13
12
14
15
11
4
4
5
11
4
5
11
5

****

CABINET ASSEMBLY <M2>

#⚠ REF No.	PART No.	PART NAME, DESCRIPTION
1	PQ11392S-15	FRONT PANEL ASSY
1A	PQ45763-1-1	WINDOW(IR)
1B	PQ34403-3-3	BUTTON(POWER)
1C	PQ45762-1-1	INDICATOR(POWER)
1D	PQ45838A-2	SHAFT ASSY
1E	SDSF2608Z	SCREW, X2 FOR SHAFT
1F	PQ34409-1-1	PLATE(EARTH)
1G	PQ21416-10	BUTTON
1H	PU59891-2	MAGNET, X2
1J	PQ21165-8	COVER(FRONT)
1K	PQ21415-5	COVER
1L	PQ21414-5-3	CASSETTE DOOR
1M	PQ45704	TORSION SPRING
1N	SDSF2005Z	SCREW, X2 FOR DUMPER
1P	PQ34436A	DAMPER UNIT ASSY
1Q	PQ11450R-8	DOOR ASSY
⚠ 2	PQ11011-12	TOP COVER
3	PQ43827-3	SPECIAL SCREW, X4 FOR T.COVER
4	PQ43945A-3	FOOT ASSY, X4
5	SDSF3010Z	SCREW, X4 FOR FOOT
9	PQ45990	FILTER
⚠ 10	PQ11025-1-5	BOTTOM COVER
11	SDSG3008Z	SCREW, X5,FOR B.COVER
12	PEME0886	JOG SHUTTLE ASSY
13	SDSF2605Z	SCREW, X3 FOR JOG S.ASSY
14	PQ34405-1-4	KNOB(SHUTTLE)
15	PQ34406-1-3	KNOB(JOG)
16	SDSF2608Z	SCREW, X13 FOR T/D/S/J BOARD
17	PU49485-4	WIRE CLAMP, X2 FOR SW/D BOARD
18	YU40328-2	WIRE CLAMP, X2
20	PQ41556	EARTH PLATE
21	SDSF3010Z	SCREW FOR EARTH PLATE
22	PQ34683-1-1	PLATE(SUPPORT)
23	SDSF3010ZY	SCREW, X3 FOR FRONT PANEL

4.3 CHASSIS ASSEMBLY <M3>


6
6
5
CASSETTE HOUSING BOARD <56>
18
18
-18
18
VIDEO INTERFACE BOARD ASSY <10>
18
18
VIDEO UNIT BOARD ASSY <05>
2E
2D
2
UPPER DRUM BOARD <62>
14
2B
2B
2F
2A
3
PRE AMP BOARD ASSY <42>
3
3
2C
8
PRIMARY BOARD ASSY <60>
REGULATOR (2) BOARD ASSY <18>
9
8
8
SWITCH REGULATOR BOARD ASSY <01>
REGULATOR (1) BOARD ASSY <02>
AUDIO UNIT BOARD ASSY <09>
22
19
SOUND MENU BOARD ASSY < 71 >
A/S/M BOARD ASSY <04>
22
7
REC AMP BOARD ASSY <43>
11
JACK BOARD ASSY <36>
13
4
4
4
MECHANISM ASSY <M4>
19
19
15
19
FLYING ERASE BOARD ASSY < 46 >
16
1

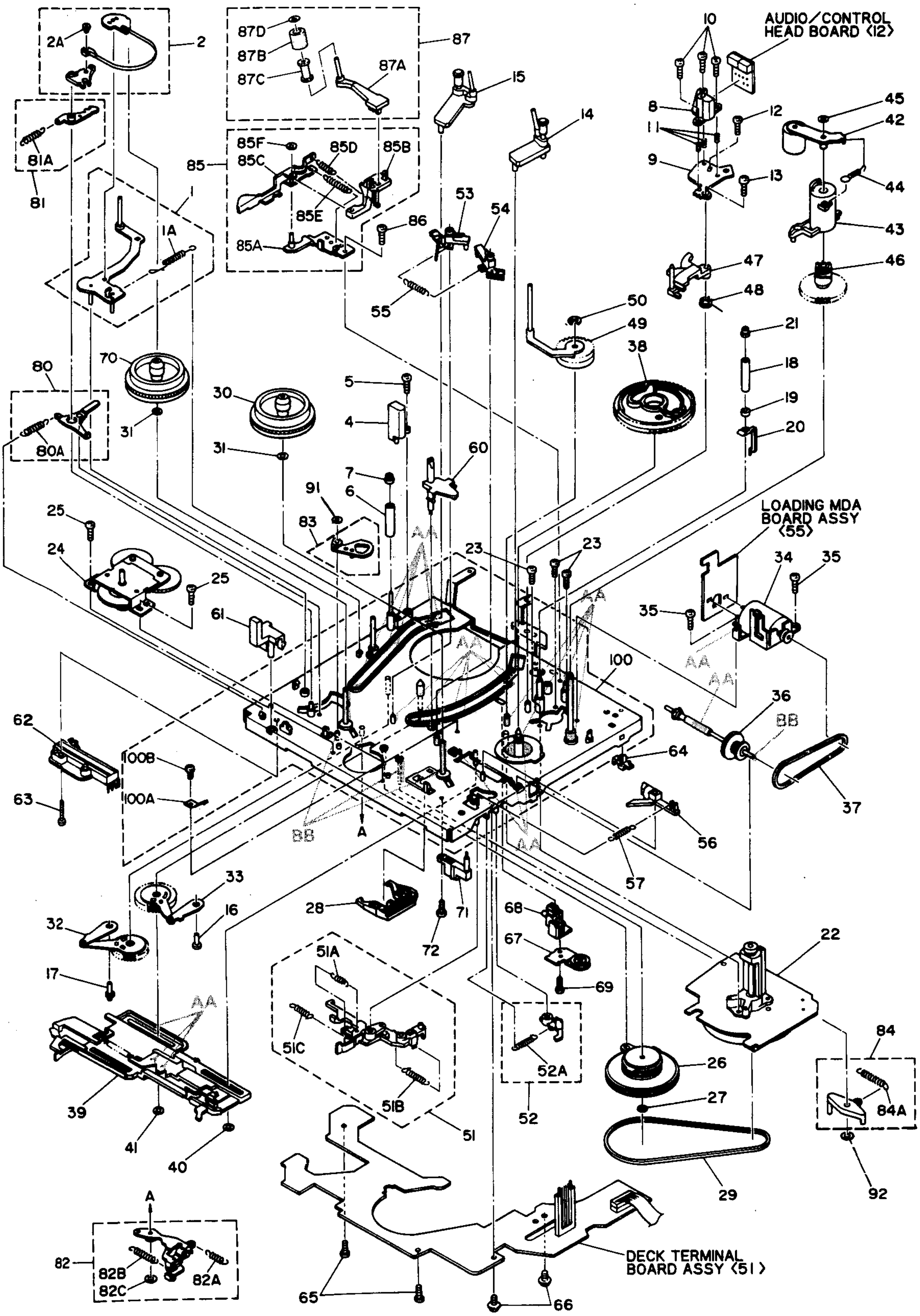
BEWARE OF BOGUS PARTS
Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.

****

CHASSIS ASSEMBLY <M3>

#⚠ REF No.	PART No.	PART NAME, DESCRIPTION
⚠ 1	PQ10995-3-12	BOTTOM CHASSIS
2	PDV2215A	DRUM ASSY
2A	PDM2119C	UPPER DRUM ASSEMBLY
2B	PDM4165A	DRUM SCREW ASSY,X2
2C	PDM2138Q	LOWER DRUM MOTOR ASSY
2D	PDM4229A-1	BRUSH ASSY
2E	SPSG2606Z	SCREW
2F	PDM4226A	ROLLER ASSY
3	SDST2610Z	SCREW, X3 FOR DRUM ASSY
4	PQ43831	SPECIAL SCREW, X3 FOR M.DECK
5	PUS29499D	CASSETTE HOUSING ASSY
6	SDST2608Z	SCREW, X4,FOR C.HOUSING
7	SDST2606Z	SCREW, X2 FOR REC AMP
8	SDSF3010Z	SCREW, X4 FOR SW.REG
9	PQ44940-1-1	PLATE(EARTH)
13	SDSF2608Z	SCREW, X2 FOR JACK BOARD
15	PQM30029-153	SPACER
16	PQM30029-161	SPACER
18	SDSF3010Z	SCREW, X6 FOR VIDEO BOARD
19	SDSF3010M	SCREW, X4 FOR REAR PANEL
22	SDSF3010Z	SCREW FOR TERMINAL

4.4 MECHANISM ASSENBLY ⟨M4⟩


2A
2
87D
87B
87C
87A
87
15
14
10
AUDIO/CONTROL HEAD BOARD ⟨12⟩
8
11
12
9
13
45
42
44
43
46
81A
81
1
1A
85
85F
85C
85D
85B
85E
85A
86
53
54
55
47
48
50
49
38
21
18
19
20
80
70
80A
31
30
31
5
4
60
7
6
91
83
25
24
25
61
23
23
LOADING MDA BOARD ASSY ⟨55⟩
34
35
35
AA
100
36
BB
37
62
100B
100A
63
BB
A
64
56
57
33
32
16
17
28
71
72
68
67
69
22
51A
51C
51B
51
52A
52
26
27
29
84
84A
92
39
41
40
A
82
82B
82C
82A
65
66
DECK TERMINAL BOARD ASSY ⟨51⟩

Category	Part number	MARK
Grease	KANTO-G-31KAV	AA
Oil	COSMO-HV56	BB

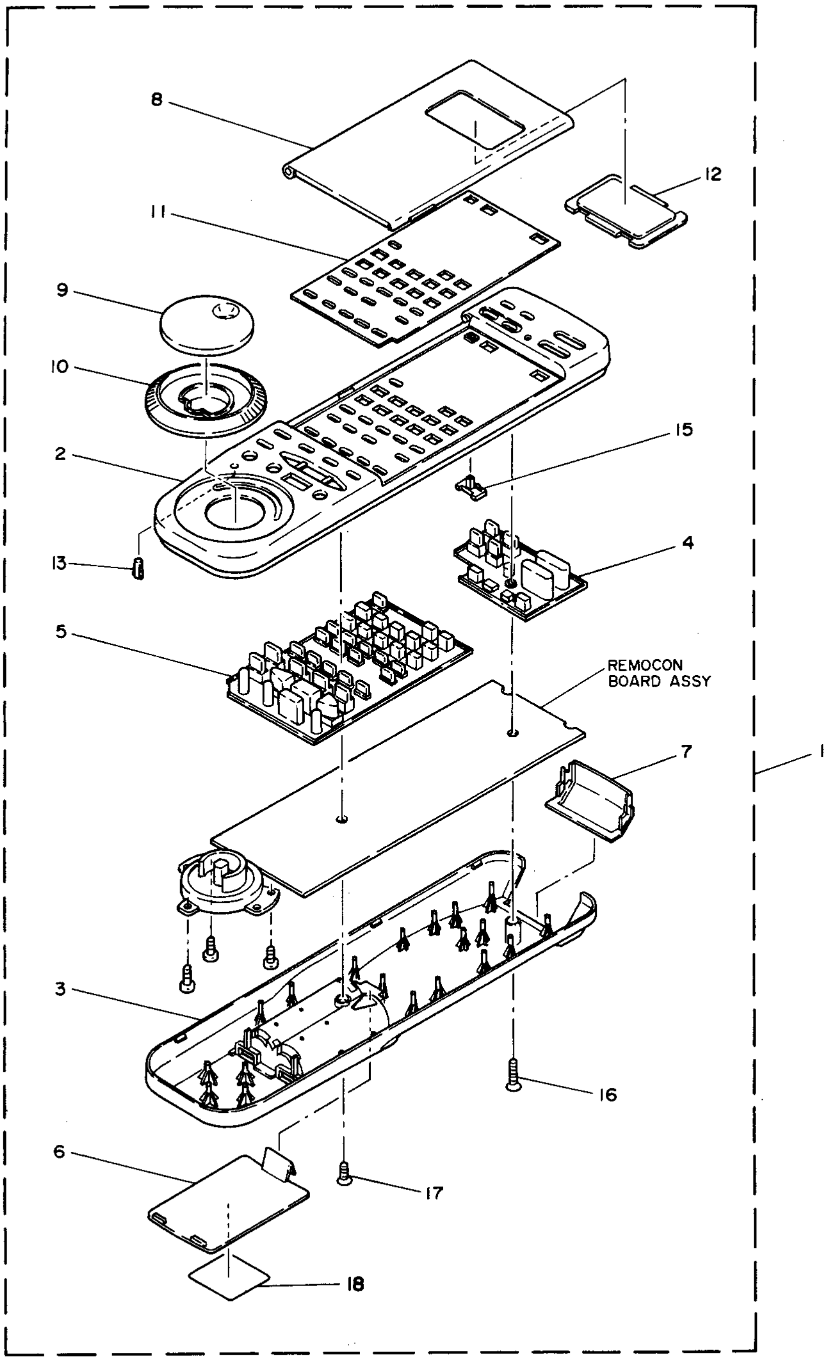
NOTE: The section marked in AA and BB indicate lubrication and greasing areas.

****

MECHANISM ASSEMBLY <M4>

#△ REF No.	PART No.	PART NAME, DESCRIPTION
1	PQ43497J	TENSION ARM ASSY
1A	PQ43500	TENSION SPRING
2	PQ44734A-7	TENSION BAND ASSY
2A	PQ45456	ADJUST PIN
4	PU60616	FULL ERASE HEAD
5	SDSF2614Z	SCREW
6	PQ43505-1-1	ROLLER
7	PQ43506	GUIDE POLE CAP
8	PU61002	AUDIO/CONTROL HEAD
9	PQ43509	HEAD BASE
10	PQ43687A	SPECIAL SCREW,X3
11	PQM30002-192	COMPRESSION SP,X3
12	SPSF2608M	SCREW
13	SPSP2606Z	SCREW
14	PU61103-2-7	POLE BASE ASSY (TAKE-UP)
15	PU61151-2-6	POLE BASE ASSY (SUPPLY)
16	PQ45895	STOPPER(T)
17	PQ45894	STOPPER(S)
18	PQ43526-1-3	TAPE GUIDE
19	PQ43670-1-1	GUIDE FLANGE
20	PQ43675	TAPE GUARD
21	PQ43506	GUIDE POLE CAP
△ 22	PU61003-1-2	CAPSTAN MOTOR
23	SPSG2608Z	SCREW,X3
24	PU61246	IDLER GEAR UNIT
25	SPST2606Z	SCREW, X2
26	PU61245-1-3	CLUTCH UNIT
27	PQM30017-8	SLIT WASHER
28	PQ43532B	CHANGE LEVER ASSY
29	PU61006	TIMING BELT
30	PU60858-1-4	REEL DISK (TAKE-UP)
OR	PQ45617A	REEL DISK (TAKE-UP)
31	PQM30018-54	SPACER,X2
32	PQ43537B	LOADING ARM ASSY (SUPPLY)
33	PQ43542D-4	LOADING ARM ASSY (TAKE-UP)
34	PQ43676B-5	MODE MOTOR ASSY
OR	PQ43676C-7	MODE MOTOR ASSY
35	SPST2606Z	SCREW,X2
36	PQ43548A-3	WORM CLUTCH ASSY
37	PQM30003-23	BELT
38	PQ20822-3	CONTROL CAM
39	PQ44581B	PLATE ASSY
40	PQM30017-12	SLIT WASHER
41	PQM30017-8	SLIT WASHER
42	PQ43558E	PINCH ROLLER ARM ASSY
OR	PQ43558D	PINCH ROLLER ARM ASSY
43	PQ32415	PINCH ROLLER PRESS LEVER
44	PQM30001-233	TENSION SPRING
45	PQM30017-12	SLIT WASHER
46	PQ32416-2	PINCH ROLLER CAM
47	PQ43567A-13	GUIDE ARM ASSY
48	PQ43569-1-3	TORSION SPRING
49	PQ43570B	HALF LOADING GEAR ASSY
50	PQM30017-12	SLIT WASHER
51	PQ43575A-5	CANCEL LEVER ASSY
51A	PQM30001-273	TENSION SPRING
51B	PQM30001-237	TENSION SPRING
51C	PQM30001-274	TENSION SPRING
52	PQ43578A-2	HOOK ASSY
52A	PQM30001-238	TENSION SPRING
53	PQ43581D	MAIN BRAKE ASSY (SUPPLY)
54	PQ43582C	MAIN BRAKE ASSY (TAKE-UP)
55	PQM30001-251	TENSION SPRING
56	PQ43583A-3	SUB BRAKE ASSY (TAKE-UP)
57	PQM30001-346	TENSION SPRING
60	PU60621-1-2	LED HOLDER, (INCL, LED:D1)
61	PU60624-1-4	REC SAFETY SWITCH,(S2)
OR	PU61281	REC SAFETY SWITCH
62	PU61247-1-1	SLIDE ENCORDER,(S3)
63	SDSF2614Z	SCREW
64	PQ32516	PWB HOLDER
65	SDST2616Z	SCREW,X2
66	GPSF2608Z	SCREW,X2
67	PQ43912A-7	PULLEY ARM ASSY
68	PQ33249	PULLEY BASE
69	PQ45121A	SCREW
70	PU60859-1-4	REEL DISK (SUPPLY)
OR	PQ45622A	REEL DISK (SUPPLY)
71	PU61008	CASSETTE SW,(S1)
72	SDST2608Z	SCREW
80	PQ44739A-1	LOCK LEVER 1 ASSY
80A	PQM30001-278-46	TENSION SPRING
81	PQ44741A-3	LOCK LEVER 2 ASSY
81A	PQM30001-279-52	TENSION SPRING
82	PQ44743A-8	IDLER LEVER ASSEMBLY
82A	PQM30001-344	TENSION SPRING
82B	PQM30001-301	TENSION SPRING
82C	PQM30017-5	SLIT WASHER
83	PQ44746A-2	OFF LEVER ASSY
84	PQ44585A-8	CAPSTAN BRAKE ASSEMBLY
84A	PQM30001-282-52	SPRING
85	PQ44843A-3	A.BASE ASSY
85A	PQ44845B	A.BASE SUB ASSY
85B	PQ33511-1-2	CLEANER ARM
85C	PQ44841-1-4	CANCEL LEVER
85D	PQM30001-299	TENSION SPRING
85E	PQM30001-300	TENSION SPRING
85F	PQM30017-5	SLIT WASHER
86	SPST2606Z	SCREW
87	PQ44840B-5	CLEANER BASE ASSY
87A	PQ44844A	CLEANER BASE SUB ASSY
87B	PQ44837	CLEANER
87C	PQ45689	ROLLER
87D	PQM30017-38	SLIT WASHER
91	PQM30017-5	SLIT WASHER
92	PQM30017-8	SLIT WASHER
100	PQ20994A-6	MAIN DECK ASSEMBLY
OR	PQ21232A-2	MAIN DECK ASSEMBLY
100A	PQ43849	EARTH PLATE
100B	SPST2604Z	SCREW

4.5 REMOTE CONTROL UNIT< M5 >



****

REMOTE CONTROLLER <M5>

#⚠ REF No.	PART No.	PART NAME, DESCRIPTION
⚠ 1	PQ11237S	REMOTE CONTROLLER
2	PQ11221-13	COVER(FRONT)
3	PQ11093	COVER(REAR)
4	PQ33870-13	BUTTON(1)
5	PQ21276-13	BITTON(3)
6	PQ33609	CAP(BATTERY)
7	PQ33610	WINDOW(IR)
8	PQ33915-5	DOOR
9	PQ33612-1-1	KNOB(JOG)
10	PQ33613-1-2	KNOB(SHUTTLE)
11	PQ33914-12	PLATE
12	PQ45167	WINDOW(DOOR)
13	PQ45206	INDICATOR(A)
15	PQ45219-2	KNOB(SLIDE)
16	SSSF2008M	SCREW
17	SSSF2006M	SCREW
18	PQ33451-7	REMOCON LABEL

SECTION 5
ELECTRICAL PARTS LIST

SAFETY PRECAUTION

Parts indentified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

NOTES: ●< 2 digits > indicates circuit board symbol number.
●"X" indicates quantity per set.

****

SW.REG.BOARD ASSY<01><02><18> <01>

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
⚠	A01	PGZ00760	AC INLET
	BKT1	PQ21026-5	BRACKET (1)
	BKT2	PQ21027-5-4	BRACKET (2)
⚠	BKT3	PQ33381-5	BRACKET(POWER)
	HD1	PU43192-4	BINDER, X2
	PWBA	PB10565P	SW.REG.BOARD ASSY
⚠	COV1	PQ33981	COVER(AC)
⚠	COV2	PQ33644-1-2	COVER(AC) (2)
	BKT4	PQ33965	BRACKET(SW.REG)
	ETH1	PQ44695	EARTH PLATE
	SCW1	SDST3006Z	SCREW,X8
	SCW2	SDSP3008Z	SCREW
	SLD1	PQ33382	SHIELD COVER(1)
	SLD2	PQ33383	SHIELD COVER(2)

-SW.REGURATOR BOARD ASSY<01>-

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA1	PB10565P1	SW.REG BOARD ASSY
	IC1	LM358P	IC
		OR XRA10358	IC
		OR LM358N	IC
		OR BA10358	IC
	Q1	2SC4304-LF619	TRANSISTOR
		OR 2SC3752(LM)-CB7	TRANSISTOR
	Q2	2SC3616(MLK)	TRANSISTOR
	Q4	2SB941P	TRANSISTOR
	Q5	2SA1515(QR)	TRANSISTOR
	D1	RB-156LFB	DIODE
	D2	AU01	FR DIODE
		OR 1SR153-400-T2	FR DIODE
	D3	AU01	FR DIODE
		OR 1SR153-400-T2	FR DIODE
	D4	AU01Z	FR DIODE
		OR ERA18-02-T2	FR DIODE
		OR 1SR153-200-T2	FR DIODE
	D5	MTZ27BT-77	ZENER DIODE
	D7	AK04	DIODE
		OR 11EQS04	SB DIODE
	D8	AK04	DIODE
		OR 11EQS04	SB DIODE
	D9	1SS133	DIODE
		OR MA165	DIODE
	D10	MTZ33AT-77	ZENER DIODE
	D11	AU01Z	FR DIODE
		OR ERA18-02-T2	FR DIODE
		OR 1SR153-200-T2	FR DIODE
	D12	11EFS2	FR DIODE
	D13	1SS133	DIODE
		OR MA165	DIODE
	D14	FML-12S	FR DIODE
		OR 5DL2CZ41A	FR DIODE
		OR YG901C2	FR DIODE
		OR MA644	FR DIODE
		OR FCF06A20	FR DIODE
	D15	AU01Z	FR DIODE
		OR ERA18-02-T2	FR DIODE
		OR 1SR153-200-T2	FR DIODE
	D16	FMB-24	BARRIER DIODE
		OR F5KQ40B	BARRIER DIODE
		OR 5GWJ2CZ42	SB DIODE
	D18	MTZV6.2A	ZENER DIODE
		OR RD6.2ES-T1B1	ZENER DIODE
		OR UZ6.2BSA	
	D19	RD33ES-T1B4	ZENER DIODE
	D35	OR MTZV5.1C	
	R3	QRD161J-184	RESISTOR
	R4	QRD161J-184	RESISTOR
	R5	QRD161J-563	RESISTOR
	R6	QRG029J-683G	OMF RESISTOR
	R7	QRG029J-561A	OMF RESISTOR
	R8	QRG029J-331G	RESISTOR
	R9	QRX014J-R33Z	MF RESISTOR
	R10	QRD161J-122	RESISTOR
	R11	QRD161J-471	RESISTOR
⚠	R12	QRZ0077-470X	FUSIBLE RESISTOR
	R14	QRD161J-103	RESISTOR
⚠	R15	QRZ0077-470X	FUSIBLE RESISTOR
	R16	QRV144F-8451AY	CMF RESISTOR
	R17	QRV144F-9761AY	CMF RESISTOR
	R18	QRD161J-331	RESISTOR
	R19	QRD161J-222	RESISTOR
	R21	QRV144F-9761AY	CMF RESISTOR
	R22	QRV144F-1002A	CMF RESISTOR
	R23	QRV144F-4023A	RESISTOR
	R24	QRD161J-471	RESISTOR
	R26	QRG029J-303A	OMF RESISTOR
⚠	R27	QRG02DJ-222X	OMF RESISTOR
	R29	QRD161J-222	RESISTOR

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
⚠	C1	QFZ9022-333	MM CAPACITOR
⚠	C2	QFZ9022-333	MM CAPACITOR
⚠	C3	QFZ9022-333	MM CAPACITOR
⚠	C4	QCZ9016-222M	CAPACITOR
⚠	C5	QCZ9016-222M	CAPACITOR
⚠	C6	QCZ9016-222M	CAPACITOR
⚠	C7	QCZ9016-222M	CAPACITOR
	C8	PECA0738-107	E CAPACITOR
		OR PECA0793-107	E CAPACITOR
	C9	QCZ0212-472	CAPACITOR
		OR QCY53AK-472	CAPACITOR
	C10	QCZ0136-101Z	CAPACITOR
	C11	PECA0780-224Z	M CAPACITOR
		OR QFV11HJ-224	TF CAPACITOR
	C12	QFLA1HJ-682Z	M CAPACITOR
	C13	QETC1HM-105	E CAPACITOR
	C14	QEGB1AM-107	E CAPACITOR
	C15	QETC0JM-107	E CAPACITOR
	C16	QEGC1HM-396	E CAPACITOR
	C17	QETC1VM-336	E CAPACITOR
	C18	QCBB1HJ-271	CAPACITOR
	C19	QEGB1EM-227	E CAPACITOR
	C20	QETC1EM-227	E CAPACITOR
	C21	QFN31HJ-103	M CAPACITOR
	C22	QEGB1CM-158	E CAPACITOR
	C23	QETB1CM-228	E CAPACITOR
	C24	QETC1JM-336	E CAPACITOR
	C25	QEGB1AM-128	E CAPACITOR
	C26	QETB1AM-228	E CAPACITOR
	C27	QFN31HJ-102	M CAPACITOR
	C28	QFLA1HJ-223Z	M CAPACITOR
	C29	QFV11HJ-104	MM CAPACITOR
		OR QFV41HJ-104	TF CAPACITOR
⚠	C32	QCZ9016-101K	CAPACITOR
⚠	C33	QCZ9016-101K	CAPACITOR
⚠	C34	QCZ9016-222M	CAPACITOR
⚠	C35	QCZ9016-222M	CAPACITOR
	L1	PU48530-100K	COIL
	L2	PU60943-330K	COIL
	L3	PELN0270-330KZ	COIL
	L4	PU60943-330K	COIL
⚠	PC1	PC111LS	PH COUPLER
⚠	T1	PELN0542	SW TRANS
⚠	HS1	PEME0843	HEAT SINK
⚠	HS2	PU61191	HEAT SINK(1)
⚠	HS3	PQ44774	HEAT SINK
	J1	PEMC0742-010	CONNECTOR(BOARD TO BOARD)
	J2	PEMC0742-006	CONNECTOR(BOARD TO BOARD)
⚠	LF1	PU60347	LINE FILTER
		OR PU61108	LINE FILTER
⚠	LF2	PELN0255	LINE FILTER
		OR PU59707	LINE FILTER
	SCW1	SDSG3008Z	SCREW
	SCW2	DPSP3008Z	SCREW,X2
	SCW3	SDSG3008Z	SCREW
	CN1	PU60417-105	CONNECTOR
⚠	CP1	ICP-N10	CIRCUIT PROTECTOR
⚠	CP6	ICP-F25	CIRCUIT PROTECTOR

-SW.REGURATOR BOARD ASSY<02>-

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA2	PB10565P2	REGULATOR(1) BOARD ASSY
	IC2	LM358P	IC
		OR LM358N	IC
		OR BA10358	IC
		OR XRA10358	IC
	Q31	2SD2159(UV)	TRANSISTOR
	Q32	2SB1068(KU)	TRANSISTOR
	Q34	2SD1855(EF)	TRANSISTOR
	Q36	2SD1796	TRANSISTOR
		OR 2SD1856	TRANSISTOR
	D35	UZ5.1BSC	ZENER DIODE
		OR RD5.1ES-T1B3	ZENER DIODE
	R31	QRD161J-102	RESISTOR
	R32	QRD161J-471	RESISTOR
	R33	QRD161J-102	RESISTOR
	R35	QRD161J-222	RESISTOR
	R36	QVZ3521-222Z	V RESISTOR,SW 5V ADJ
		OR QVZ3521-222	V RESISTOR
	R37	QRD161J-123	RESISTOR
	R38	QRD161J-102	RESISTOR
	R39	QRD161J-112	RESISTOR
	R40	QRD161J-103	RESISTOR
	R41	QRD161J-102	RESISTOR
	R45	QRD161J-752	RESISTOR
	R46	QRD161J-103	RESISTOR
	R47	QRD161J-682	RESISTOR
	C41	QETC0JM-107	E CAPACITOR
	C42	QEK60JM-107	E CAPACITOR
	C43	QEK61CM-107	E CAPACITOR
	C44	QEK61CM-107	E CAPACITOR
	C45	QFN31HJ-103	M CAPACITOR
	C46	QFN31HJ-102	M CAPACITOR
	C47	QEK61CM-107	E CAPACITOR

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
⚠	HS1	PQ44774-2	HEAT SINK
	J3	PEMC0742-008	CONNECTOR(BOARD TO BOARD)
	SCW1	SDSG3008Z	SCREW
	CN2	PU58844-105	CONNECTOR
	CN3	PU60417-109	CONNECTOR
	CN5	PU60417-105	CONNECTOR
⚠	CP4	ICP-N10	CIRCUIT PROTECTOR
⚠	CP5	ICP-N25	CIRCUIT PROTECTOR

-SW.REGURATOR BOARD ASSY<18>-

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA3	PB10565P3	REGULATOR(2) BOARD ASSY
	Q35	2SB1068(KU)	TRANSISTOR
	R43	QRD161J-272	RESISTOR
	R44	QRD161J-103	RESISTOR
	C48	QETC1CM-107	E CAPACITOR
	C49	QETC1AM-107	E CAPACITOR
	CN4	PU58844-104	CONNECTOR
	CN6	PU60417-103	CONNECTOR
	CN9	PU58844-102	CONNECTOR
⚠	CP7	ICP-N15	CIRCUIT PROTECTOR

* * *

A/S/M BOARD ASSEMBLY <04>

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA	PB10703G	A/S/M BOARD ASSY
	D1	1SS133	DIODE
	BKT1	PQ44693-1-1	BRACKET(1),X2
	BKT2	PQ44694-1-2	BRACKET(2)
	CL1	PEME0802	CLAMP,X4
	JA1	PEMC0761	PIN JACK(SW)
	JA2	PEMC0760	PIN JACK
	JA3	PU61012	MINI JACK
	SCW1	SDSF2608Z	SCREW
	SCW2	SDSG2606Z	SCREW,X3
⚠	TB1	PQ21440	TERMINAL BOARD
	TP	PU55774	TEST PIN,X2
	CN201	PU58844-5	CONNECTOR
	CN202	PU60417-6	CONNECTOR
	CN615	PU58844-2	CONNECTOR
	CN702	PU60417-4	CONNECTOR

-AUDIO SECTION-

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	IC1	MC14052BCP	IC
	IC2	XRA15218	IC
		OR BA15218	IC
	IC3	XRA15218	IC
		OR BA15218	IC
	IC5	XRA15218	IC
		OR BA15218	IC
	Q1	2SC3311A(RS)	TRANSISTOR
	Q2	DTC114ES	TRANSISTOR
	Q4	2SC1740S(RS)	TRANSISTOR
		OR 2SC3199(G)	TRANSISTOR
	D1	OR MA165	DIODE
	D2	1SS133	DIODE
		OR MA165	DIODE
	D3	1SS133	DIODE
		OR MA165	DIODE
	D4	1SS133	DIODE
		OR MA165	DIODE
	D5	1SS133	DIODE
		OR MA165	DIODE
	D6	1SS133	DIODE
		OR MA165	DIODE
	D7	1SS133	DIODE
		OR MA165	DIODE
	D11	1SS133	DIODE
		OR MA165	DIODE
	R1	QRD161J-154	RESISTOR
	R2	QRD161J-154	RESISTOR
	R3	QRD161J-152	RESISTOR
	R4	QRD161J-152	RESISTOR
	R6	QRD161J-152	RESISTOR
	R8	QRD161J-152	RESISTOR
	R9	QRD161J-152	RESISTOR
	R10	QRD161J-152	RESISTOR
	R11	QRD161J-273	RESISTOR
	R12	QRD161J-273	RESISTOR
	R13	QRD161J-333	RESISTOR
	R14	QRD161J-822	RESISTOR
	R15	QRD161J-473	RESISTOR
	R16	QRD161J-473	RESISTOR
	R17	QRD161J-473	RESISTOR
	R18	QRD161J-473	RESISTOR
	R20	QRD161J-154	RESISTOR
	R21	QRD161J-184	RESISTOR
	R22	QRD161J-154	RESISTOR
	R23	QRD161J-184	RESISTOR
	R24	QRD161J-103	RESISTOR
	R25	QRD161J-103	RESISTOR
	R26	QRD161J-362	RESISTOR
	R27	QRD161J-362	RESISTOR
	R28	QRD161J-683	RESISTOR
	R29	QRD161J-823	RESISTOR
	R30	QRD161J-222	RESISTOR
	R31	QRD161J-222	RESISTOR
	R32	QRD161J-223	RESISTOR
	R33	QRD161J-273	RESISTOR
	R34	QRD161J-823	RESISTOR
	R35	QRD161J-221	RESISTOR
	R36	QRD161J-202	RESISTOR
	R37	QRD161J-473	RESISTOR
	R38	QRD161J-102	RESISTOR
	R43	QRD161J-473	RESISTOR
	R44	QRD161J-563	RESISTOR
	R45	QRD161J-473	RESISTOR
	R46	QRD161J-563	RESISTOR
	R47	QRD161J-102	RESISTOR
	R48	QRD161J-680	RESISTOR
	R49	QRD161J-680	RESISTOR
	R50	QRD161J-103	RESISTOR
	R51	QRD161J-103	RESISTOR
	R52	QRD161J-221	RESISTOR
	R53	QRD161J-221	RESISTOR
	R54	QRD161J-103	RESISTOR
	R55	QRD161J-103	RESISTOR
	R61	QRD161J-0R0	RESISTOR
	R62	QRD161J-0R0	RESISTOR
	C3	QETC1CM-476	E CAPACITOR
	C4	QETC1CM-476	E CAPACITOR
	C5	QETC1CM-106	E CAPACITOR
	C6	QETC1CM-106	E CAPACITOR
	C7	QETC1CM-476	E CAPACITOR
	C8	QETC1CM-226	E CAPACITOR
	C9	QETC1CM-226	E CAPACITOR
	C10	QETC1CM-106	E CAPACITOR
	C11	QETC1CM-106	E CAPACITOR
	C12	QETC1EM-475	E CAPACITOR
	C13	QETC1HM-105	E CAPACITOR
	C14	QETC1HM-105	E CAPACITOR
	C15	QCBB1HJ-151	CAPACITOR
	C16	QETC1EM-475	E CAPACITOR
	C17	QETC1HM-105	E CAPACITOR
	C18	QETC1CM-476	E CAPACITOR
	C21	QETC1CM-476	E CAPACITOR
	C22	QEK61CM-476	E CAPACITOR
	C23	QETC1CM-476	E CAPACITOR
	C24	QETC1CM-476	E CAPACITOR
	C25	QETC1CM-106	E CAPACITOR
	C26	QETC1CM-106	E CAPACITOR
	C27	QETC1CM-476	E CAPACITOR
	C28	QETC1CM-476	E CAPACITOR
	L3	PU59152-2R2J	COIL
	CN1	PU58844-4	CONNECTOR
	CN2	PU58844-6	CONNECTOR
	CN3	PU58844-5	CONNECTOR
	CN4	PEMC0714-015	CONNECTOR
	CN5	PU58844-3	CONNECTOR
	CN9	PEMC0714-009	CONNECTOR
	CN10	PU58844-3	CONNECTOR
	CN11	PU58844-2	CONNECTOR

-SERVO SECTION-

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	IC401	HD49780NT	IC
	IC451	BA7039	IC
		OR XRA7039	IC
	D402	1SS133	DIODE
		OR MA165	DIODE
	D403	1SS133	DIODE
		OR MA165	DIODE
	R401	QRD161J-122	RESISTOR
	R402	QRD161J-102	RESISTOR
	R403	QRD161J-105	RESISTOR
	R404	QRD161J-103	RESISTOR
	R405	QRD161J-474	RESISTOR
	R406	QRD161J-102	RESISTOR
	R407	QRD161J-102	RESISTOR
	R408	QRD161J-102	RESISTOR
	R409	QRD161J-102	RESISTOR
	R410	QRD161J-223	RESISTOR
	R411	QRD161J-225	RESISTOR
	R412	QRD161J-473	RESISTOR
	R413	QRD161J-222	RESISTOR
	R414	QRD161J-122	RESISTOR
	R415	QRD161J-332	RESISTOR
	R416	QRD161J-223	RESISTOR
	R417	QRD161J-223	RESISTOR

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	R418	QRD161J-105	RESISTOR
	R419	QRD161J-273	RESISTOR
	R421	QRD161J-394	RESISTOR
	R423	QRD161J-105	RESISTOR
	R424	QRD161J-273	RESISTOR
	R428	QRD161J-564	RESISTOR
	R429	QRD161J-183	RESISTOR
	R430	QRD161J-335	RESISTOR
	R431	QRD161J-334	RESISTOR
	R432	QRD161J-822	RESISTOR
	R436	QRD161J-102	RESISTOR
	R438	QRD161J-104	RESISTOR
	R451	QRD161J-102	RESISTOR
	R452	QRD161J-102	RESISTOR
	R453	QRD161J-102	RESISTOR
	R454	QRD161J-472	RESISTOR
	R455	QRD161J-562	RESISTOR
	R456	QRD161J-274	RESISTOR
	C401	QCBB1HJ-102	CAPACITOR
	C402	QEK61AM-226	E CAPACITOR
	C403	QEK61AM-226	E CAPACITOR
	C404	QCBB1HJ-181	CAPACITOR
	C405	QCBB1HJ-102	CAPACITOR
	C406	QFV71HJ-223	TF CAPACITOR
	OR	QFV11HJ-223	MMT CAP
	C407	QCBB1HJ-102	CAPACITOR
	C408	QFV71HJ-563	TF CAPACITOR
	OR	QFV11HJ-563	MMT CAP
	C409	QCB31HJ-102	CAPACITOR
	C410	QCVB1CM-103	CAPACITOR
	C411	QCVB1CM-103	CAPACITOR
	C412	QEK61CM-106	E CAPACITOR
	C413	QFV71HJ-224	TF CAPACITOR
	OR	QFV11HJ-224	TF CAPACITOR
	C414	QCC31CK-223	CAPACITOR
	C415	QEK61EM-475	E CAPACITOR
	C416	QEK61EM-475	E CAPACITOR
	C417	QEK61CM-106	E CAPACITOR
	C418	QEK61CM-106	E CAPACITOR
	C419	QFV71HJ-223	TF CAPACITOR
	OR	QFV11HJ-223	MMT CAP
	C420	QFV71HJ-184	TF CAPACITOR
	OR	QFV11HJ-184	MMT CAP
	C421	QCBB1HJ-471	CAPACITOR
	C451	QCVB1CM-103	CAPACITOR
	C452	QCC31CK-104	CAPACITOR
	C453	QCVB1CM-103	CAPACITOR
	C454	QCVB1CM-103	CAPACITOR
	C455	QCVB1CM-103	CAPACITOR
	C456	QCVB1CM-103	CAPACITOR
	C458	QEK61CM-106	E CAPACITOR
	C459	QFV71HJ-104	TF CAPACITOR
	OR	QFV11HJ-104	MM CAPACITOR
	L451	PU59152-270J	COIL
	TP401	PU55774	TEST PIN
	TP411	PU55774	TEST PIN
	CN401	PU58844-3	CONNECTOR
	CN402	PU59555-4	CONNECTOR
	CN403	PU58844-8	CONNECTOR
	CN404	PEMC0714-015	CONNECTOR
	CN406	PU58844-2R	CONNECTOR
⚠	CP401	ICP-N15	CIRCUIT PROTECTOR
		-MECHACON SECTION-	
	IC601	M37525M4-120SP	IC
	OR	M37525E4-120SP	IC
	IC602	S-6731A-004	IC
	OR	CAT35C104P-004	IC
	IC603	M50255P	IC
	Q601	2SB1256	TRANSISTOR
	Q602	2SC3199(GB)-TJK	TRANSISTOR
	Q604	DTC124ES	TRANSISTOR
	Q605	DTC144ES	TRANSISTOR
	D601	1SS133	DIODE
	OR	MA165	DIODE
	D602	11ES2	DIODE
	OR	ERA15-02	DIODE
	OR	1SR139-200	DIODE
	OR	S5688G	DIODE
	D603	1SS133	DIODE
	OR	MA165	DIODE
	D604	MTZ7.5B	ZENER DIODE
	OR	UZ7.5BSB	ZENER DIODE
	OR	HZS7.5EB2	ZENER DIODE
	D605	1SS133	DIODE
	OR	MA165	DIODE
	D606	1SS133	DIODE
	OR	MA165	DIODE
	D607	1SS133	DIODE
	OR	MA165	DIODE
	D608	11ES2	DIODE
	OR	1SR139-200	DIODE
	OR	ERA15-02	DIODE
	OR	S5688G	DIODE
	D609	1SS133	DIODE
	OR	MA165	DIODE
	D610	MTZ7.5B	ZENER DIODE
	OR	HZS7.5EB2	ZENER DIODE
	R601	QRD161J-332	RESISTOR
	R602	QRD161J-332	RESISTOR
	R603	QRD161J-472	RESISTOR
	R604	QRD161J-102	RESISTOR
	R605	QRD161J-102	RESISTOR
	R606	QRD161J-472	RESISTOR
	R607	QRD161J-472	RESISTOR
	R608	QRD161J-472	RESISTOR
	R609	QRD161J-472	RESISTOR
	R612	QRD161J-472	RESISTOR
	R613	QRD161J-472	RESISTOR
	R614	QRD161J-472	RESISTOR
	R615	QRD161J-472	RESISTOR
	R616	QRD161J-103	RESISTOR
	R617	QRD161J-102	RESISTOR
	R618	QRD161J-472	RESISTOR
	R619	QRD161J-472	RESISTOR
	R620	QRD161J-472	RESISTOR
	R621	QRD161J-472	RESISTOR
	R622	QRD161J-472	RESISTOR
	R623	QRD161J-472	RESISTOR
	R624	QRD161J-103	RESISTOR
	R625	QRD161J-105	RESISTOR
	R626	QRD161J-681	RESISTOR
	R627	QRD161J-102	RESISTOR
	R628	QRD161J-472	RESISTOR
	R631	QRD161J-102	RESISTOR
	R632	QRD161J-102	RESISTOR
	R633	QRD161J-472	RESISTOR
	R634	QRD161J-103	RESISTOR
	R635	QRD161J-563	RESISTOR
	R636	QRD161J-154	RESISTOR
	R637	QRD161J-333	RESISTOR
	R638	QRD161J-303	RESISTOR
	R639	QRD161J-224	RESISTOR
	R640	QRD161J-222	RESISTOR
	R641	QRD161J-472	RESISTOR
	R642	QRD161J-103	RESISTOR
	R643	QRD161J-333	RESISTOR
	R645	QRD161J-471	RESISTOR
	R646	QRD161J-103	RESISTOR
	R647	QRD161J-333	RESISTOR
	R649	QRD161J-102	RESISTOR
	R650	QRD161J-102	RESISTOR
	R652	QRD161J-391	RESISTOR
	R661	QRD161J-0R0	RESISTOR
	R662	QRD161J-0R0	RESISTOR
	RA601	QRB045J-103M	RESISTOR ARRAY
	OR	QRB045J-103F	RESISTOR ARRAY
	C601	QCFB1EZ-223	CAPACITOR
	C602	QEK61EM-335	E CAPACITOR
	C603	QCC11EJ-104	CAPACITOR
	C604	QEK61HM-105	E CAPACITOR
	C605	QETC0JM-107	E CAPACITOR
	C606	QCBB1HJ-121	CAPACITOR
	C608	QCC11EJ-104	CAPACITOR
	C609	QCBB1HJ-101	CAPACITOR
	C610	QCSB1HJ-220	CAPACITOR
	C611	QCC11EJ-104	CAPACITOR
	C612	QCBB1HJ-101	CAPACITOR
	C621	QCF11HP-104	CAPACITOR
	L601	PU59152-2R2J	COIL
	CF601	PEVB0340	RESONATOR
	CN601	PEMC0722-018	WIRE TRAP
	OR	PEMC0753-018	WIRE TRAP
	CN602	PU59555-4	CONNECTOR
	CN604	PU60417-8	CONNECTOR
	CN605	PU60417-9	CONNECTOR
	CN607	PU60417-4	CONNECTOR
	CN610	PEMC0714-011	CONNECTOR
	CN611	PU58844-2	CONNECTOR
	CN612	PU60417-4	CONNECTOR
	CN613	PU58844-4	CONNECTOR
	CN614	PU58844-2	CONNECTOR
⚠	CP601	ICP-N25	CIRCUIT PROTECTOR
⚠	CP602	ICP-N38	CIRCUIT PROTECTOR

****

* VIDEO UNIT BOARD ASSEMBLY <05> *

REF NO.	PART NO.	PART NAME, DESCRIPTION
PWBA	PB10580C-01	VIDEO UNIT BOARD ASSY
TP	PU57545	TEST PIN, X11
SLD1	PU61177-1-2	SHIELD CASE
SLD2	PU61178	SHIELD PLATE
	-Y SECTION-	
IC401	PB20432D-02-SS	Y.MODULE(JA073)

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	IC402	CXL5003M	IC
	IC404	MC74HC4538AN	IC
	IC405	CD4066BE	IC
	OR	BU4066B	IC
	IC406	TC4S81F	IC
	IC407	TC4S01F	IC
	IC408	TC4S30F	IC
	IC409	TC4S71F	IC
	Q401	2SC4081(QRS)	TRANSISTOR
	Q402	2SC4081(QRS)	TRANSISTOR
	Q403	2SC4081(QRS)	TRANSISTOR
	Q404	2SC4081(QRS)	TRANSISTOR
	Q407	2SA1576(QRS)	TRANSISTOR
	Q408	DTC144WU	TRANSISTOR
	Q409	2SA1576(QRS)	TRANSISTOR
	Q411	DTA144EU	TRANSISTOR
	Q413	DTC124EU	TRANSISTOR
	Q414	DTC144WU	TRANSISTOR
	Q415	DTC144WU	TRANSISTOR
	D401	DAP202U	DIODE
	D404	DAN202U	DIODE
	D405	DAN202U	DIODE
	D406	DAN202U	DIODE
	D407	DAN202U	DIODE
	D408	DAP202U	DIODE
	D411	1SS133	DIODE
	OR	MA165	DIODE
	R401	QRS188J-122YN	RESISTOR
	R402	QRS188J-272YN	RESISTOR
	R403	QRSA08J-392YN	RESISTOR
	R404	QRSA08J-821YN	RESISTOR
	R405	QRS188J-182YN	RESISTOR
	R406	QRSA08J-271YN	RESISTOR
	R407	QRSA08J-222YN	RESISTOR
	R408	QRSA08J-105YN	RESISTOR
	R409	QRSA08J-475YN	RESISTOR
	R410	QRSA08J-102YN	RESISTOR
	R412	QRSA08J-222YN	RESISTOR
	R413	QRSA08J-102YN	RESISTOR
	R415	QRSA08J-242YN	RESISTOR
	R416	QVZ3518-151	V RESISTOR,SUB EMPHA INPUT LEV
	R417	QRSA08J-391YN	RESISTOR
	R419	QRD161J-223	RESISTOR
	R420	QRSA08J-101YN	RESISTOR
	R422	QRSA08J-223YN	RESISTOR
	R424	QRSA08J-223YN	RESISTOR
	R425	QRSA08F-431YN	RESISTOR
	R427	QRSA08J-102YN	RESISTOR
	R428	QRSA08J-392YN	RESISTOR

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	R429	QRSA08J-274YN	RESISTOR
	R430	QRSA08J-102YN	RESISTOR
	R431	QRSA08J-475YN	RESISTOR
	R433	QRSA08J-563YN	RESISTOR
	R434	QRSA08J-393YN	RESISTOR
	R435	QRSA08J-223YN	RESISTOR
	R436	QRSA08J-223YN	RESISTOR
	R437	QRSA08J-183YN	RESISTOR
	R438	QRSA08J-562YN	RESISTOR
	R439	QRSA08J-562YN	RESISTOR
	R440	QRSA08J-222YN	RESISTOR
	R441	QRSA08J-102YN	RESISTOR
	R443	QRSA08J-103YN	RESISTOR
	R444	QVZ3518-102	V RESISTOR,YNR BALANCE
	R445	QRSA08J-242YN	RESISTOR
	R446	QRSA08J-242YN	RESISTOR
	R447	QRSA08J-103YN	RESISTOR
	R448	QRS188J-222YN	RESISTOR
	R449	QRSA08J-512YN	RESISTOR
	R450	QRS188J-101YN	RESISTOR
	R451	QRSA08J-104YN	RESISTOR
	R453	QRSA08J-683YN	RESISTOR
	R454	QRSA08J-103YN	RESISTOR
	R455	QRSA08J-102YN	RESISTOR
	R456	QRSA08J-241YN	RESISTOR
	C401	QETC0JM-476	E CAPACITOR
	C402	QCSA1HJ-7R0	CAPACITOR
	C403	QCYA1HK-103	CAPACITOR
	C404	QCYA1EK-104	CAPACITOR
	C405	QCYA1HK-103	CAPACITOR
	C406	QETC1HM-474	E CAPACITOR
	C407	QCYA1HK-103	CAPACITOR
	C408	QETC0JM-476	E CAPACITOR
	C409	QCYA1HK-103	CAPACITOR
	C410	QETC1CM-476	E CAPACITOR
	C411	QCYA1HK-103	CAPACITOR
	C412	QCYA1HK-103	CAPACITOR
	C413	QETC1CM-476	E CAPACITOR
	C414	QCYA1HK-223	CAPACITOR
	C415	QETC0JM-107	E CAPACITOR
	C416	QETC1CM-226	E CAPACITOR
	C417	QETC0JM-107	E CAPACITOR
	C418	QETC1HM-225	E CAPACITOR
	C419	QETC1HM-225	E CAPACITOR
	C420	QETC1EM-475	E CAPACITOR
	C421	QETC0JM-476	E CAPACITOR
	C422	QCYA1HK-103	CAPACITOR
	C423	QETC0JM-107	E CAPACITOR
	C424	QCSA1HJ-100	CAPACITOR
	C425	QCTA1CH-181	CAPACITOR

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	C426	QCTA1CH-471	CAPACITOR
	C429	QCSA1HJ-300	CAPACITOR
	C430	QCSA1HJ-620	CAPACITOR
	C431	QCSA1HJ-151	CAPACITOR
	C433	QCYA1HK-473	CAPACITOR
	C435	QETC0JM-107	E CAPACITOR
	C436	QETC1EM-475	E CAPACITOR
	C437	QETC1CM-106	E CAPACITOR
	C438	QETC1EM-475	E CAPACITOR
	C439	QCFA1HZ-103	CAPACITOR
	C440	QCYA1HK-103	CAPACITOR
	C441	QCSA1HJ-271	CAPACITOR
	C442	QCSA1HJ-102	CAPACITOR
	C443	QETC1CM-106	E CAPACITOR
	C445	QCYA1HK-103	CAPACITOR
	C450	QCSA1HJ-101	CAPACITOR
	C451	QCSA1HJ-221	CAPACITOR
	C452	QCYA1EK-104	CAPACITOR
	C453	QCYA1EK-104	CAPACITOR
	C454	QCYA1EK-104	CAPACITOR
	C456	QCYA1EK-104	CAPACITOR
	C457	QCYA1EK-104	CAPACITOR
	C458	QCYA1EK-104	CAPACITOR
	C459	QETC0JM-227	E CAPACITOR
	C460	QCTA1CH-680	CAPACITOR
	C461	QCSA1HJ-221	CAPACITOR
	L401	PU48530-101K	COIL
	L402	PU48530-101K	COIL
	L403	PU59153-101K	COIL
	L404	PU59153-101K	COIL
	L405	PU59988-181J	COIL
	L406	PU59153-101K	COIL
	L407	PU59153-101K	COIL
	L408	PU59988-120J	COIL
	L410	PU59988-151JY	COIL
	L411	PU48530-471K	COIL
	LPF401	PELN0566	LOW PASS FILTER
	LPF402	PU60737	LOW PASS FILTER
	LPF403	PU60812	LOW PASS FILTER
	CN401	PU60910-12	CONNECTOR
	OR	PU60727-12	CONNECTOR
	CN402	PU60910-9	WIRE TRAP
	OR	PU60727-9	CONNECTOR

-COLOR SECTION-

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	IC501	PB20463A-02-SS	COLOR MODULE BOARD ASSY
	IC503	TC4S01F	IC

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	Q501	2SA1576(QRS)	TRANSISTOR
	Q502	DTC144WU	TRANSISTOR
	Q504	2SC4081(QRS)	TRANSISTOR
	Q505	DTC144WU	TRANSISTOR
	Q506	DTC144WU	TRANSISTOR
	Q509	DTA124EU	TRANSISTOR
	Q510	DTC144WU	TRANSISTOR
	Q513	DTC114EU	TRANSISTOR
	Q514	DTC144WU	TRANSISTOR
	Q515	DTC144WU	TRANSISTOR
	Q516	2SC4081(QRS)	TRANSISTOR
	Q517	2SC4081(QRS)	TRANSISTOR
	Q518	DTA114EU	TRANSISTOR
	Q519	2SC4081(QRS)	TRANSISTOR
	Q520	2SC4081(QRS)	TRANSISTOR
	Q521	2SC4081(QRS)	TRANSISTOR
	Q524	2SA1576(QRS)	TRANSISTOR
	Q525	2SA1576(QRS)	TRANSISTOR
	Q528	DTC144WU	TRANSISTOR
	Q529	DTC144WU	TRANSISTOR
	Q530	DTC144WU	TRANSISTOR
	D505	DAN202U	DIODE
	D507	DAN202U	DIODE
	D511	DAN202U	DIODE
	R503	QRSA08J-331YN	RESISTOR
	R504	QRSA08J-102YN	RESISTOR
	R505	QRD161J-471	RESISTOR
	R506	QRSA08J-301YN	RESISTOR
	R507	QRSA08J-911YN	RESISTOR
	R508	QRSA08J-333YN	RESISTOR
	R509	QRSA08J-333YN	RESISTOR
	R511	QRSA08J-102YN	RESISTOR
	R512	QRSA08J-102YN	RESISTOR
	R513	QRSA08J-124YN	RESISTOR
	R514	QRSA08J-125YN	RESISTOR
	R515	QRSA08J-332YN	RESISTOR
	R516	QRSA08J-393YN	RESISTOR
	R518	QRD161J-103	RESISTOR
	R519	QRSA08J-104YN	RESISTOR
	R520	QRSA08J-103YN	RESISTOR
	R522	QRSA08J-102YN	RESISTOR
	R523	QRSA08J-222YN	RESISTOR
	R524	QRSA08J-103YN	RESISTOR
	R526	QRSA08J-222YN	RESISTOR
	R527	QRSA08J-681YN	RESISTOR
	R528	QRSA08J-333YN	RESISTOR
	R529	QRSA08J-333YN	RESISTOR
	R530	QRSA08J-561YN	RESISTOR

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	R531	QRS188J-104YN	RESISTOR
	R532	QRSA08J-104YN	RESISTOR
	R533	QRSA08J-225YN	RESISTOR
	R535	QRD161J-122	RESISTOR
	R536	QRSA08J-182YN	RESISTOR
	R537	QRS188J-182YN	RESISTOR
	R538	QRS188J-102YN	RESISTOR
	R540	QRD161J-562	RESISTOR
	R541	QRSA08J-562YN	RESISTOR
	R542	QRSA08J-332YN	RESISTOR
	R543	QRSA08J-102YN	RESISTOR
	R544	QRSA08J-222YN	RESISTOR
	R545	QRSA08J-222YN	RESISTOR
	R546	QRSA08J-561YN	RESISTOR
	R547	QRSA08J-471YN	RESISTOR
	R548	QRSA08J-561YN	RESISTOR
	R551	QRS188J-102YN	RESISTOR
	R552	QRS188J-102YN	RESISTOR
	R553	QRSA08J-561YN	RESISTOR
	R554	QRSA08J-471YN	RESISTOR
	R555	QRSA08J-333YN	RESISTOR
	R556	QRSA08J-333YN	RESISTOR
	R557	QRSA08J-102YN	RESISTOR
	R563	QRSA08J-102YN	RESISTOR
	R564	QRD161J-103	RESISTOR
	R565	QRSA08J-103YN	RESISTOR
	C501	QCSA1HJ-100	CAPACITOR
	C502	QCFA1HZ-103	CAPACITOR
	C503	QCYA1HK-103	CAPACITOR
	C504	QCSA1HJ-220	CAPACITOR
	C506	QCFA1HZ-103	CAPACITOR
	C507	QCSA1HJ-331	CAPACITOR
	C508	QCSA1HJ-121	CAPACITOR
	C509	QETC0JM-107	E CAPACITOR
	C510	QCSA1HJ-220	CAPACITOR
	C511	QETC1HM-105	E CAPACITOR
	C512	QETC1EM-335	E CAPACITOR
	C513	QETC1HM-105	E CAPACITOR
	C514	QCYA1HK-103	CAPACITOR
	C517	QFN31HJ-823	M CAPACITOR
	C518	QCYA1HJ-822	CAPACITOR
	C519	QETC1EM-475	E CAPACITOR
	C520	QCYA1HJ-822	CAPACITOR
	C521	QETC1HM-335	E CAPACITOR
	C522	QCSA1HJ-102	CAPACITOR
	C523	QETC1HM-474	E CAPACITOR
	C524	QETC1HM-224	E CAPACITOR
	C525	QCFA1HZ-103	CAPACITOR
	C526	QETC0JM-107	E CAPACITOR
	C527	QETC1HM-105	E CAPACITOR
	C528	QETC1HM-104	E CAPACITOR
	C529	QETC1HM-105	E CAPACITOR
	C530	QETC1HM-105	E CAPACITOR
	C531	QCYA1HK-223	CAPACITOR
	C534	QETC0JM-107	E CAPACITOR
	C535	QCFA1HZ-103	CAPACITOR
	C536	QCY81HK-103	CAPACITOR
	C537	QCSA1HJ-470	CAPACITOR
	C538	QCFA1HZ-103	CAPACITOR
	C539	QETC0JM-476	E CAPACITOR
	C540	QCYA1HK-103	CAPACITOR
	C541	QCSA1HJ-330	CAPACITOR
	C542	QCSA1HJ-390	CAPACITOR
	C543	QFN31HJ-473	M CAPACITOR
	C544	QCSA1HJ-560	CAPACITOR
	C546	QCYA1HK-103	CAPACITOR
	C550	QCYA1HK-682	CAPACITOR
	C551	QCYA1HK-222	CAPACITOR
	C552	QCSA1HJ-820	CAPACITOR
	C553	QCFA1HZ-103	CAPACITOR
	C554	QCYA1HK-103	CAPACITOR
	C561	QCYA1EK-104	CAPACITOR
	C563	QETC1HM-105	E CAPACITOR
	C564	QETC1HM-105	E CAPACITOR
	L501	PU59153-101K	COIL
	L502	PU59988-680J	COIL
	L503	PU59988-150J	COIL
	L504	PU59988-820J	COIL
	L505	PU59988-1R0JY	COIL
	L506	PU59988-100J	COIL
	L507	PU59988-330J	COIL
	L509	PU59153-101K	COIL
	L511	PU59153-101K	COIL
	L513	PU48530-101K	COIL
	L514	PU59988-390J	COIL
	L515	PU48530-222J	COIL
	L516	PU59988-221JW	COIL
	L517	PU48530-821J	COIL
	EQ501	PU60811	EQUALIZER
	LPF501	PU58022	LOW PASS FILTER
	BPF501	PELN0396	BAND PASS FILTER
	BPF502	PU60654	BAND PASS FILTER
	OR	PU60654-2	BAND PASS FILTER
	CF501	PU57073	CERAMIC FILTER
	DL501	PU58971-3	2H DELAY LINE
⚠	X501	PU60653	CRYSTAL UNITS
	CN501	PU58844-3R	CONNECTOR
	CN502	PU58844-8	CONNECTOR
	CN503	PU58844-8	CONNECTOR
	CN504	PU58844-3	CONNECTOR
	CN506	PU60417-4	CONNECTOR

* * *

AUDIO UNIT BOARD ASSEMBLY <09>

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA	PB10395S-01	AUDIO UNIT BOARD ASSY
	IC1	PB20438B-01-SS	FMA MOD.(JB010)
	IC2	JCP0013	IC
	IC4	M34225M2-110SP	IC
	IC5	M5223P	IC
	Q1	2SC4097(QR)	TRANSISTOR
	Q4	2SC4081(QR)	TRANSISTOR
	Q5	2SC4081(QR)	TRANSISTOR
	Q6	DTA114EU	TRANSISTOR
⚠	Q10	DTA144EU	TRANSISTOR
⚠	Q11	DTA124EU	TRANSISTOR
⚠	Q13	DTA114EU	TRANSISTOR
	Q16	2SC4081(QR)	TRANSISTOR
	Q18	DTA114TU	TRANSISTOR
	Q19	DTC114EU	TRANSISTOR
	Q23	2SC4081(QR)	TRANSISTOR
	Q26	2SC4081(QR)	TRANSISTOR
	Q27	2SC4081(QR)	TRANSISTOR
	Q28	2SA1577(QR)	TRANSISTOR
	Q29	2SC4097(QR)	TRANSISTOR
	D1	DAN202U	DIODE
	D3	DAN202U	DIODE
	D4	DAN202U	DIODE
	D5	DAN202U	DIODE
	D6	DA204U	DIODE
	D7	DA204U	DIODE
	D8	DAN202U	DIODE
	D10	DAN202U	DIODE
	D12	HZ2BLL	ZENER DIODE
	D13	HZ2BLL	ZENER DIODE
	D14	1SS133	DIODE
	D15	DAN202U	DIODE
	D16	DAN202U	DIODE
	D17	DAN202U	DIODE
	D21	DAN202U	DIODE
	D22	DAP202U	DIODE
	D23	1SS133	DIODE
	OR	MA165	DIODE
	D24	1SS133	DIODE
	OR	MA165	DIODE
	R1	QRSA08J-100YN	RESISTOR
	R2	QRSA08J-333YN	RESISTOR
	R3	QRSA08J-820YN	RESISTOR
	R12	QRSA08J-0R0Y	RESISTOR
	R15	QRSA08J-333YN	RESISTOR
	R16	QRSA08J-333YN	RESISTOR
	R17	QRSA08J-102YN	RESISTOR
	R22	QRSA08J-362YN	RESISTOR
	R23	QRSA08J-104YN	RESISTOR
	R24	QRSA08J-102YN	RESISTOR
	R25	QRSA08J-331YN	RESISTOR
	R29	QRSA08J-473YN	RESISTOR
	R30	QRSA08J-473YN	RESISTOR
	R31	QRSA08J-4R7YN	RESISTOR
	R33	QRSA08J-102YN	RESISTOR
	R34	QRSA08J-682YN	RESISTOR
	R35	QRSA08J-222YN	RESISTOR
	R36	QRSA08J-222YN	RESISTOR
	R37	QRSA08J-222YN	RESISTOR
	R41	QRSA08J-123YN	RESISTOR
	R42	QRSA08J-123YN	RESISTOR
	R45	QRSA08J-473YN	RESISTOR
	R46	QRSA08J-393YN	RESISTOR
	R51	QRSA08J-222YN	RESISTOR
	R52	QRSA08J-182YN	RESISTOR
	R53	QRSA08J-102YN	RESISTOR
	R54	QRSA08J-331YN	RESISTOR
	R55	QRSA08J-122YN	RESISTOR
	R56	QRSA08J-101YN	RESISTOR
	R57	QRSA08J-221YN	RESISTOR
	R58	QRSA08J-0R0Y	RESISTOR
	R62	QRSA08J-103YN	RESISTOR
	R63	QRSA08J-103YN	RESISTOR
	R64	QRSA08J-823YN	RESISTOR
	R65	QRSA08J-121YN	RESISTOR
	R66	QRSA08J-682YN	RESISTOR
	R67	QRSA08J-103YN	RESISTOR
	R68	QRSA08J-682YN	RESISTOR
	R69	QRSA08J-121YN	RESISTOR
	R70	QRSA08J-823YN	RESISTOR

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	R71	QRSA08J-103YN	RESISTOR
	R72	QRSA08J-152YN	RESISTOR
	R73	QRSA08J-132YN	RESISTOR
	R74	QRSA08J-102YN	RESISTOR
	R75	QRSA08J-102YN	RESISTOR
	R76	QRSA08J-472YN	RESISTOR
	R77	QRSA08J-333YN	RESISTOR
	R78	QRSA08J-273YN	RESISTOR
	R79	QRSA08J-333YN	RESISTOR
	R80	QRSA08J-333YN	RESISTOR
	R81	QRSA08J-333YN	RESISTOR
	R82	QRSA08J-333YN	RESISTOR
	R83	QRSA08J-333YN	RESISTOR
	R84	QRSA08J-333YN	RESISTOR
	R85	QRSA08J-333YN	RESISTOR
	R86	QRSA08J-103YN	RESISTOR
	R87	QRSA08J-473YN	RESISTOR
	R88	QRSA08J-102YN	RESISTOR
	R91	QRSA08J-0R0Y	RESISTOR
	R92	QRSA08J-221YN	RESISTOR
	R93	QRSA08J-0R0Y	RESISTOR
	R94	QRSA08J-122YN	RESISTOR
	R95	QRSA08J-272YN	RESISTOR
	R103	QRSA08J-562YN	RESISTOR
	R104	QRSA08J-333YN	RESISTOR
	R106	QRSA08J-562YN	RESISTOR
	R108	QRSA08J-473YN	RESISTOR
	R110	QRSA08J-472YN	RESISTOR
	R111	QRSA08J-152YN	RESISTOR
	R112	QRD182J-472	RESISTOR
	R114	QRSA08J-102YN	RESISTOR
	R115	QRSA08J-102YN	RESISTOR
	R116	QRD161J-273	RESISTOR
	R117	QRD161J-560	RESISTOR
	C1	QCYA1HK-222	CAPACITOR
	C2	QCYA1HK-332	CAPACITOR
	C3	QETC1EM-475	E CAPACITOR
	C4	QCSA1HJ-331	CAPACITOR
	C5	QFV81HJ-333	TF CAPACITOR
	C6	QETC1CM-106	E CAPACITOR
	C9	QETC1HM-225	E CAPACITOR
	C10	QETB1AM-336	E CAPACITOR
	C11	QETC0JM-476	E CAPACITOR
	C15	QETC1CM-106	E CAPACITOR
	C21	QETC1CM-476	E CAPACITOR
	C25	QETC1CM-476	E CAPACITOR
	C26	QETC1CM-476	E CAPACITOR
	C27	QETC1CM-106	E CAPACITOR

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	C28	QENC1CM-106	NP E CAPACITOR
	C31	QETC1HM-225	E CAPACITOR
	C32	QETC1EM-475	E CAPACITOR
	C34	QFV71HJ-223	TF CAPACITOR
	C35	QCYA1HK-682	CAPACITOR
	C36	QCYA1HK-153	CAPACITOR
	C37	QCYA1HK-682	CAPACITOR
	C38	QETC1CM-106	E CAPACITOR
	C39	QETC1AM-476	E CAPACITOR
	C40	QENC1CM-106	NP E CAPACITOR
	C41	QENC1CM-106	NP E CAPACITOR
	C43	QETC1CM-106	E CAPACITOR
	C44	QETC1AM-336	E CAPACITOR
	C45	QETC0JM-107	E CAPACITOR
	C46	QCSA1HJ-102	CAPACITOR
	C47	QETC1AM-336	E CAPACITOR
	C48	QETC0JM-107	E CAPACITOR
	C51	QENC1CM-106	NP E CAPACITOR
	C52	QETC1AM-476	E CAPACITOR
	C53	QETC1CM-106	E CAPACITOR
	C54	QETC1CM-476	E CAPACITOR
	C55	QETC1CM-476	E CAPACITOR
	C56	QETC0JM-107	E CAPACITOR
	C57	QETC1CM-476	E CAPACITOR
	C58	QETC1CM-476	E CAPACITOR
	C60	QCYA1HK-102	CAPACITOR
	C62	QETC0JM-107	E CAPACITOR
	C63	QETC1CM-336	E CAPACITOR
	C64	QETC1CM-336	E CAPACITOR
	C65	QETC1CM-106	E CAPACITOR
	C66	QETC1HM-105	E CAPACITOR
	C67	QETC1CM-106	E CAPACITOR
	C70	QCYA1HK-102	CAPACITOR
	C71	QCFA1EZ-104	CAPACITOR
	C72	QCFA1EZ-104	CAPACITOR
	C75	QCYA1HK-153	CAPACITOR
	C76	QCYA1EK-223	CAPACITOR
	C79	QCC11CJ-104	CAPACITOR
		OR QCC11EJ-104	CAPACITOR
	C81	QCYA1HK-221	CAPACITOR
	C82	QCYA1HK-221	CAPACITOR
	C83	QCSA1HJ-681	CAPACITOR
	C86	QCYA1HK-103	CAPACITOR
	C87	QCYA1HK-103	CAPACITOR
	C88	QCBB1HJ-471	CAPACITOR
	L1	PU58308-472J	COIL
	L2	PU48530-181J	COIL
	L3	PU48530-101J	COIL
	L5	PU48530-101J	COIL

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	BPF1	PU60610	BPF(1.4MHZ)
	BPF2	PU60611	BPF(1.8MHZ)
⚠	CF1	PEVB0352	RESONATOR
⚠	T1	PELN0351	OSC TRANSFORMER
⚠		OR PELN0562	OSC TRANSFORMER
⚠	T2	PELN0340	OSC TRANSFORMER
⚠		OR PELN0532	OSC TRANSFORMER
	SPC1	PQM30029-149	SPACER
	CN1	PU58844-8	CONNECTOR
	CN2	PU58844-2	CONNECTOR
	CN3	PU60417-6	CONNECTOR
	CN4	PU58844-5	CONNECTOR
	CN5	PU58844-4	CONNECTOR
	CN6	PU58844-2	CONNECTOR
		PU58844-3	CONNECTOR
	CN7	PU60417-3	CONNECTOR
	CN8	PEMC0757-115	HOUSING
	CN9	PEMC0757-111	HOUSING
	CN10	PEMC0757-115	HOUSING
	CN11	PEMC0748-110	CONNECTOR
	CN12	PEMC0748-110	CONNECTOR
	CN13	PEMC0748-110	CONNECTOR
⚠	CP1	ICP-F10	CIRCUIT PROTECTOR
⚠	CP2	ICP-F10	CIRCUIT PROTECTOR
⚠	CP3	ICP-F10	CIRCUIT PROTECTOR

* * *

VIDEO INTERFACE BOARD ASSEMBLY <10>

	PWBA	PB10694E	VIDEO INTERFACE B.ASSY

-I/O & SW SECTION-

	IC1	JCP0021	IC
	IC2	BA7649A	IC
	IC3	BA7644AN	IC
	IC7	LVA523SA	IC
	IC12	MC74HC04AN	IC
		OR CD74HC04E	IC
		OR TC74HC04AP	IC

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	Q1	2SA933S(RS)	TRANSISTOR
		OR 2SA1267(YG)-TJK	TRANSISTOR
	Q2	DTC144ES	TRANSISTOR
	Q4	DTC144WS	TRANSISTOR
	Q7	2SA933S(RS)	TRANSISTOR
		OR 2SA1267(YG)-TJK	TRANSISTOR
	Q9	2SA854S(QR)	TRANSISTOR
	Q11	2SA854S(QR)	TRANSISTOR
	Q14	2SA854S(QR)	TRANSISTOR
	Q15	2SA933S(RS)	TRANSISTOR
		OR 2SA1267(YG)-TJK	TRANSISTOR
	Q19	2SD1468S(RS)	TRANSISTOR
	Q21	2SA933S(RS)	TRANSISTOR
		OR 2SA1267(YG)-TJK	TRANSISTOR
	Q22	2SA933S(RS)	TRANSISTOR
		OR 2SA1267(YG)-TJK	TRANSISTOR
	Q23	2SC1740S(QRS)	TRANSISTOR
		OR 2SC3199(YG)-TJK	TRANSISTOR
	Q25	DTC144WS	TRANSISTOR
	Q27	2SA933S(RS)	TRANSISTOR
		OR 2SA1267(YG)-TJK	TRANSISTOR
	Q29	DTC144WS	TRANSISTOR
	Q30	DTC144WS	TRANSISTOR
	Q31	2SA933S(RS)	TRANSISTOR
		OR 2SA1267(YG)-TJK	TRANSISTOR
	Q32	2SC1740S(QRS)	TRANSISTOR
		OR 2SC3199(YG)-TJK	TRANSISTOR
	Q33	2SC1740S(S)	TRANSISTOR
	Q34	2SA933S(RS)	TRANSISTOR
		OR 2SA1267(YG)-TJK	TRANSISTOR
	Q35	2SC1740S(QRS)	TRANSISTOR
		OR 2SC3199(YG)-TJK	TRANSISTOR
	Q36	2SA933S(RS)	TRANSISTOR
		OR 2SA1267(YG)-TJK	TRANSISTOR
	Q38	2SC1740S(QRS)	TRANSISTOR
		OR 2SC3199(YG)-TJK	TRANSISTOR
	Q39	2SC1740S(QRS)	TRANSISTOR
		OR 2SC3199(YG)-TJK	TRANSISTOR
	Q46	DTC144ES	TRANSISTOR
	Q48	DTC144ES	TRANSISTOR
	Q49	DTC144WS	TRANSISTOR
	Q52	2SA933S(RS)	TRANSISTOR
		OR 2SA1267(YG)-TJK	TRANSISTOR
	Q59	DTC144WS	TRANSISTOR
	Q60	DTC144ES	TRANSISTOR
	Q62	2SC1740S(QRS)	TRANSISTOR
		OR 2SC3199(YG)-TJK	TRANSISTOR
	Q63	2SC1740S(QRS)	TRANSISTOR
		OR 2SC3199(YG)-TJK	TRANSISTOR

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	D1	1SS133	DIODE
		OR MA165	DIODE
	D2	1SS133	DIODE
		OR MA165	DIODE
	D4	1SS133	DIODE
		OR MA165	DIODE
	D5	1SS133	DIODE
		OR MA165	DIODE
	D6	1SS133	DIODE
		OR MA165	DIODE
	D7	1SS133	DIODE
		OR MA165	DIODE
	D8	1SS133	DIODE
		OR MA165	DIODE
	D9	1SS133	DIODE
		OR MA165	DIODE
	D10	1SS133	DIODE
		OR MA165	DIODE
	D16	1SS133	DIODE
		OR MA165	DIODE
	D17	1SS133	DIODE
		OR MA165	DIODE
	D24	MTZ8.2BT-77	ZENER DIODE
	D25	1SS133	DIODE
		OR MA165	DIODE
	D26	1SS133	DIODE
		OR MA165	DIODE
	D27	1SS133	DIODE
		OR MA165	DIODE
	D28	1SS133	DIODE
		OR MA165	DIODE
	D29	1SS133	DIODE
		OR MA165	DIODE
	D30	1SS133	DIODE
		OR MA165	DIODE
	D31	1SS133	DIODE
		OR MA165	DIODE
	D32	1SS133	DIODE
		OR MA165	DIODE
	D33	1SS133	DIODE
		OR MA165	DIODE
	D34	1SS133	DIODE
		OR MA165	DIODE
	D35	1SS133	DIODE
		OR MA165	DIODE
	D38	1SS133	DIODE
		OR MA165	DIODE
	D39	1SS133	DIODE
		OR MA165	DIODE
	D41	1SS133	DIODE
		OR MA165	DIODE
	D46	1SS133	DIODE
		OR MA165	DIODE
	D47	1SS133	DIODE
		OR MA165	DIODE
	D50	1SS133	DIODE
		OR MA165	DIODE
	D51	1SS133	DIODE
		OR MA165	DIODE
	D52	1SS133	DIODE
		OR MA165	DIODE
	D53	1SS133	DIODE
		OR MA165	DIODE
	D58	1SS133	DIODE
		OR MA165	DIODE
	D59	1SS133	DIODE
		OR MA165	DIODE
	D60	1SS133	DIODE
		OR MA165	DIODE
	D61	1SS133	DIODE
		OR MA165	DIODE
	D62	1SS133	DIODE
		OR MA165	DIODE
	D64	1SS133	DIODE
		OR MA165	DIODE
	D65	1SS133	DIODE
		OR MA165	DIODE
	D66	1SS133	DIODE
		OR MA165	DIODE
	D67	1SS133	DIODE
		OR MA165	DIODE
	D68	1SS133	DIODE
		OR MA165	DIODE
	R1	QRD162J-101	RESISTOR
	R2	QRD161J-222	RESISTOR
	R3	QRD161J-103	RESISTOR
	R4	QRD161J-103	RESISTOR
	R6	QRD161J-103	RESISTOR
	R7	QRD161J-750	RESISTOR
	R8	QRD161J-750	RESISTOR
	R9	QRD161J-750	RESISTOR
	R10	QRD161J-103	RESISTOR
	R11	QRD161J-472	RESISTOR
	R12	QRD161J-103	RESISTOR
	R15	QRD161J-222	RESISTOR
	R17	QRD122J-391S	RESISTOR
	R19	QRD122J-391S	RESISTOR
	R24	QRD161J-750	RESISTOR
	R25	QRD161J-750	RESISTOR
	R26	QRD161J-750	RESISTOR
	R27	QRD161J-750	RESISTOR
	R28	QRD161J-750	RESISTOR
	R29	QRD161J-750	RESISTOR

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	R32	QRD161J-101	RESISTOR
	R34	QRD122J-391S	RESISTOR
	R35	QRD161J-103	RESISTOR
	R36	QVPA606-103Z	V RESISTOR,EE LEVEL
	R37	QRD161J-223	RESISTOR
	R44	QRD161J-222	RESISTOR
	R45	QRD161J-470	RESISTOR
⚠	R46	QRD161J-271	RESISTOR
	R49	QRD161J-222	RESISTOR
	R50	QRD161J-222	RESISTOR
	R51	QRD161J-182	RESISTOR
	R52	QRD161J-102	RESISTOR
	R53	QRD161J-102	RESISTOR
	R54	QRD161J-152	RESISTOR
	R55	QRD161J-102	RESISTOR
	R56	QRD161J-152	RESISTOR
	R57	QRD161J-473	RESISTOR
	R58	QRD161J-102	RESISTOR
	R59	QRD161J-223	RESISTOR
	R60	QRD161J-223	RESISTOR
	R61	QRD161J-223	RESISTOR
	R62	QRD161J-223	RESISTOR
	R63	QVPA606-333Z	V RESISTOR,S PB Y LEVEL
	R64	QVPA606-332Z	V RESISTOR,PB Y LEVEL
	R65	QRD161J-682	RESISTOR
	R66	QRD161J-333	RESISTOR
	R67	QRD161J-221	RESISTOR
	R68	QRD161J-221	RESISTOR
	R69	QRD161J-103	RESISTOR
	R70	QRD161J-223	RESISTOR
	R71	QRD161J-183	RESISTOR
	R72	QRD161J-101	RESISTOR
	R73	QRD161J-183	RESISTOR
	R74	QRD161J-223	RESISTOR
	R77	QRD161J-223	RESISTOR
	R78	QRD161J-101	RESISTOR
	R79	QRD161J-272	RESISTOR
	R80	QRD161J-202	RESISTOR
	R81	QRD161J-103	RESISTOR
	R82	QRD161J-105	RESISTOR
	R83	QRD161J-183	RESISTOR
	R84	QRD161J-392	RESISTOR
	R85	QRD161J-101	RESISTOR
	R86	QRD161J-182	RESISTOR
	R87	QRD161J-431	RESISTOR
	R88	QRD161J-751	RESISTOR
	R89	QRD161J-271	RESISTOR
	R90	QRD161J-102	RESISTOR
	R91	QRD161J-821	RESISTOR
	R92	QRD161J-623	RESISTOR
	R93	QRD161J-682	RESISTOR
	R94	QRD161J-123	RESISTOR
	R95	QRD161J-333	RESISTOR
	R96	QRD161J-563	RESISTOR
	R97	QRD161J-152	RESISTOR
	R98	QRD161J-162	RESISTOR
	R99	QRD161J-102	RESISTOR
	R101	QRD161J-103	RESISTOR
	R107	QRD161J-222	RESISTOR
	R108	QRD161J-103	RESISTOR
	R109	QRD161J-223	RESISTOR
	R112	QRD161J-223	RESISTOR
	R113	QRD161J-104	RESISTOR
	R114	QRD161J-223	RESISTOR
	R122	QRD161J-102	RESISTOR
	R125	QRD161J-122	RESISTOR
	R127	QRD161J-563	RESISTOR
	R131	QRD161J-183	RESISTOR
	R132	QRD161J-101	RESISTOR
	R133	QRD161J-303	RESISTOR
	R134	QRD161J-101	RESISTOR
	R138	QRD161J-562	RESISTOR
	R142	QRD161J-101	RESISTOR
	R143	QRD161J-331	RESISTOR
	R144	QRD161J-564	RESISTOR
	R145	QRD161J-223	RESISTOR
	R146	QRD161J-223	RESISTOR
	R151	QRD161J-0R0	RESISTOR
	C1	QETC0JM-476	E CAPACITOR
	C2	QETC1HM-105	E CAPACITOR
	C3	QCVB1CN-103	CAPACITOR
	C4	QETC1HM-105	E CAPACITOR
	C6	QETC1HM-105	E CAPACITOR
	C7	QETC1HM-105	E CAPACITOR
	C8	QCSB1HJ-470	CAPACITOR
	C9	QCVB1CN-103	CAPACITOR
	C10	QCVB1CN-103	CAPACITOR
	C11	QCVB1CN-103	CAPACITOR
	C14	QCVB1CN-103	CAPACITOR
	C15	QETC0JM-476	E CAPACITOR
	C18	QETC1CM-476	E CAPACITOR
	C19	QCVB1CN-103	CAPACITOR
	C21	QCVB1CN-103	CAPACITOR
	C22	QCVB1CN-103	CAPACITOR
	C23	QETC1CM-476	E CAPACITOR
	C24	QCVB1CN-103	CAPACITOR

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	C27	QCVB1CN-103	CAPACITOR
	C28	QCVB1CN-103	CAPACITOR
	C29	QETC0JM-477	E CAPACITOR
	C30	QETC0JM-477	E CAPACITOR
	C32	QCVB1CN-103	CAPACITOR
	C33	QETC1EM-106	E CAPACITOR
	C35	QCVB1CN-103	CAPACITOR
	C36	QETC1CM-476	E CAPACITOR
	C37	QCVB1CN-103	CAPACITOR
	C38	QETC1CM-476	E CAPACITOR
	C39	QCVB1CN-103	CAPACITOR
	C40	QETC1HM-105	E CAPACITOR
	C47	QCVB1CN-103	CAPACITOR
	C48	QCVB1CN-103	CAPACITOR
	C49	QETC0JM-107	E CAPACITOR
	C50	QCVB1CN-103	CAPACITOR
	C51	QETC1EM-335	E CAPACITOR
	C52	QETC1HM-474	E CAPACITOR
	C53	QETC1HM-224	E CAPACITOR
	C54	QFN31HJ-682	M CAPACITOR
	C55	QETC0JM-107	E CAPACITOR
	C56	QCVB1CN-103	CAPACITOR
	C57	QETC1HM-474	E CAPACITOR
	C58	QETC1HM-474	E CAPACITOR
	C59	QETC1HM-474	E CAPACITOR
	C60	QCXB1CM-682	CAPACITOR
	C61	QETC1HM-474	E CAPACITOR
	C62	QETC1HM-474	E CAPACITOR
	C63	QETC1HM-105	E CAPACITOR
	C64	QCVB1CN-103	CAPACITOR
	C65	QCVB1CN-103	CAPACITOR
	C66	QCVB1CN-103	CAPACITOR
	C68	QETC1HM-105	E CAPACITOR
	C69	QETC1HM-105	E CAPACITOR
	C70	QCVB1CN-103	CAPACITOR
	C71	QETC1CM-106	E CAPACITOR
	C72	QETC1HM-225	E CAPACITOR
	C73	QCVB1CN-103	CAPACITOR
	C74	QETC0JM-476	E CAPACITOR
	C76	QCVB1CN-103	CAPACITOR
	C77	QETC1CM-107	E CAPACITOR
	C78	QETC1CM-476	E CAPACITOR
	C79	QETC1CM-106	E CAPACITOR
	C80	QCVB1CN-103	CAPACITOR
	C81	QETC1EM-335	E CAPACITOR
	C82	QCSB1HJ-330	CAPACITOR
	C83	QCSB1HJ-470	CAPACITOR
	C88	QETC0JM-476	E CAPACITOR
	C89	QCVB1CN-103	CAPACITOR
	C94	QCFB1EZ-223	CAPACITOR
	C98	QCFB1EZ-223	CAPACITOR
	C105	QCVB1CN-103	CAPACITOR
	C501	QETC1EM-106	E CAPACITOR
	L1	PU48530-101K	COIL
	L2	PU48530-101K	COIL
	L3	PU48530-101K	COIL
	L4	PU48530-101K	COIL
	L5	PU48530-101K	COIL
	L7	PU48530-101K	COIL
	L8	PU59988-100J	COIL
	L10	PU48530-101K	COIL
	L11	PU59153-101K	COIL
	L12	PU48530-101K	COIL
	L13	PU48530-101K	COIL
	LC1	PU60813	LCF
	CN1	PU60417-5	CONNECTOR
	CN5	PEMC0749-110	CONNECTOR
	CN6	PEMC0749-110	CONNECTOR
	CN7	PEMC0749-110	CONNECTOR
	CN8	PU58844-7	CONNECTOR

-Y/C SEPARATOR SECTION-

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	IC201	VC2063S	IC
	Q201	2SA933S(RS)	TRANSISTOR
		OR 2SA1267(YG)-TJK	TRANSISTOR
	Q202	2SC1740S(QRS)	TRANSISTOR
		OR 2SC3199(YG)-TJK	TRANSISTOR
	Q203	2SA933S(RS)	TRANSISTOR
		OR 2SA1267(YG)-TJK	TRANSISTOR
	Q204	2SC1740S(QRS)	TRANSISTOR
		OR 2SC3199(YG)-TJK	TRANSISTOR
	Q205	2SC1740S(QRS)	TRANSISTOR
		OR 2SC3199(YG)-TJK	TRANSISTOR
	Q206	2SC1740S(QRS)	TRANSISTOR
		OR 2SC3199(YG)-TJK	TRANSISTOR
	Q207	2SC1740S(QRS)	TRANSISTOR
		OR 2SC3199(YG)-TJK	TRANSISTOR
	Q208	2SA933S(RS)	TRANSISTOR
		OR 2SA1267(YG)-TJK	TRANSISTOR
	Q209	2SC1740S(QRS)	TRANSISTOR
		OR 2SC3199(YG)-TJK	TRANSISTOR
	Q210	DTC144ES	TRANSISTOR
	Q211	DTA144ES	TRANSISTOR
	R201	QRD161J-101	RESISTOR
	R202	QRD161J-472	RESISTOR
	R203	QRD161J-391	RESISTOR
	R204	QRD161J-101	RESISTOR
	R205	QRD161J-331	RESISTOR
	R206	QVPA606-151Z	V RESISTOR,Y COMB GAIN
	R207	QRD161J-102	RESISTOR
	R208	QRD161J-471	RESISTOR
	R209	QRD161J-681	RESISTOR
	R210	QRD161J-242	RESISTOR
	R211	QRD161J-391	RESISTOR
	R212	QRD161J-272	RESISTOR
	R213	ERT-D2FGL102S	THERMISTOR
	R214	QRD161J-223	RESISTOR
	R215	QVPA606-223Z	V RESISTOR,Y COMB-1
	R216	QRD161J-272	RESISTOR
	R217	QRD161J-122	RESISTOR
	R218	ERT-D2FHL332S	THERMISTOR
	R219	QVPA606-472Z	V RESISTOR,Y COMB-2
	R220	QRD161J-102	RESISTOR
	R221	QRD161J-102	RESISTOR
	R222	QRD161J-122	RESISTOR
	R223	QRD161J-821	RESISTOR
	R224	QRD161J-222	RESISTOR
	R225	QRD161J-102	RESISTOR
	R226	QRD161J-181	RESISTOR
	R227	QRD161J-821	RESISTOR
	R228	QRD161J-222	RESISTOR
	R229	QRD161J-821	RESISTOR
	R230	QRD161J-222	RESISTOR
	R231	QVPA606-471Z	V RESISTOR,Y COMB-3
	R232	QRD161J-222	RESISTOR
	R233	QRD161J-561	RESISTOR
	R234	QVPA606-473Z	V RESISTOR,2H DLY CHROMA
	R235	QRD161J-561	RESISTOR
	R236	QRD161J-391	RESISTOR
	R237	QRD161J-391	RESISTOR
	R239	QRD161J-223	RESISTOR
	R243	QRD161J-392	RESISTOR
	R244	QRD161J-102	RESISTOR
	R245	QRD161J-563	RESISTOR
	R246	QRD161J-393	RESISTOR
	R247	QRD161J-123	RESISTOR
	C201	QCSB1HJ-470	CAPACITOR
	C202	QETC0JM-227	E CAPACITOR
	C203	QCVB1CN-103	CAPACITOR
	C204	QETC1CM-476	E CAPACITOR
	C205	QCVB1CN-103	CAPACITOR
	C206	QCVB1CN-103	CAPACITOR
	C207	QCBB1HJ-101	CAPACITOR
	C208	QCVB1CN-103	CAPACITOR
	C209	QCVB1CN-103	CAPACITOR
	C210	QCVB1CN-103	CAPACITOR
	C211	QCVB1CN-103	CAPACITOR
	C212	QCVB1CN-103	CAPACITOR
	C213	QCVB1CN-103	CAPACITOR
	C214	QETC0JM-227	E CAPACITOR
	C215	QCVB1CN-103	CAPACITOR
	C216	QCT25CH-470	CAPACITOR
	C217	QCVB1CN-103	CAPACITOR
	C218	QETC1HM-105	E CAPACITOR
	C219	QCBB1HJ-102	CAPACITOR
	C223	QCBB1HJ-101	CAPACITOR
	C224	QCVB1CN-103	CAPACITOR
	C225	QCVB1CN-103	CAPACITOR
	C226	QCVB1CN-103	CAPACITOR
	C227	QCVB1CN-103	CAPACITOR
	C228	QCVB1CN-103	CAPACITOR
	C229	QCVB1CN-103	CAPACITOR
	C230	QCSB1HJ-270	CAPACITOR
	L201	PU48530-101K	COIL
	L202	PU48530-101K	COIL
	L203	PELN0522	COIL
	L204	PU60165-8R2G	COIL
	EQ201	PU60809	EQUALIZER
	EQ202	PU60810	EQUALIZER
	BPF201	PU60921	BAND PASS FILTER
	BPF202	PU60808-2	BAND PASS FILTER
	DL201	PELN0565	DELAY LINE

-TERMINAL SECTION-

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	R601	QRD161J-221	RESISTOR
	R602	QRD161J-221	RESISTOR
	SCW1	SDSF3010Z	SCREW
	JA1,2	PU61048	S.CONNECT,X2
	CN602	PU58844-6	CONNECTOR
	CN604	PU58844-2	CONNECTOR

-ON SCREEN SECTION-

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	IC901	M50554-263SP	IC
	IC902	M52684AP	IC
	Q901	DTA114ES	TRANSISTOR
	Q902	DTA114ES	TRANSISTOR

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	Q911	DTC124ES	TRANSISTOR
	Q912	DTC124ES	TRANSISTOR
	Q913	DTC144WS	TRANSISTOR
	Q914	DTC124ES	TRANSISTOR
	Q915	2SA933S(RS)	TRANSISTOR
		OR 2SA1267(YG)-TJK	TRANSISTOR
	D901	1SS133	DIODE
		OR MA165	DIODE
	D902	1SS133	DIODE
		OR MA165	DIODE
	D906	1SS133	DIODE
		OR MA165	DIODE
	D907	1SS133	DIODE
		OR MA165	DIODE
	D908	1SS133	DIODE
		OR MA165	DIODE
	R901	QRD161J-472	RESISTOR
	R902	QRD161J-103	RESISTOR
	R903	QRD161J-681	RESISTOR
	R904	QRD161J-103	RESISTOR
	R905	QRD161J-102	RESISTOR
	R906	QRD161J-471	RESISTOR
	R907	QRD161J-472	RESISTOR
	R908	QRD161J-362	RESISTOR
	R909	QRD161J-512	RESISTOR
	R910	QRD161J-202	RESISTOR
	R911	QRD161J-622	RESISTOR
	R912	QRD161J-123	RESISTOR
	R913	QRD161J-123	RESISTOR
	R914	QRD161J-103	RESISTOR
	R915	QRD161J-102	RESISTOR
	R916	QRD161J-105	RESISTOR
	R917	QRD161J-102	RESISTOR
	R918	QRD161J-471	RESISTOR
	R920	QRD161J-152	RESISTOR
	R921	QRD161J-271	RESISTOR
	R922	QRD161J-103	RESISTOR
	R923	QRD161J-473	RESISTOR
	R924	QRD161J-153	RESISTOR
	R951	QRD161J-103	RESISTOR
	R952	QRD161J-103	RESISTOR
	R953	QRD161J-103	RESISTOR
	R954	QRD161J-103	RESISTOR
	R955	QRD161J-562	RESISTOR
	R956	QRD161J-103	RESISTOR
	C903	QETC0JM-227	E CAPACITOR
	C904	QCVB1CN-103	CAPACITOR
	C905	QAT3120-450	TRIMMER CAPACITOR,DOT CLOCK
	C906	QCSB1HJ-220	CAPACITOR
	C907	QCSB1HJ-330	CAPACITOR
	C908	QCSB1HJ-360	CAPACITOR
	C909	QCVB1CN-103	CAPACITOR
	C910	QCSB1HJ-270	CAPACITOR
	C911	QCVB1CN-103	CAPACITOR
	C912	QCSB1HJ-270	CAPACITOR
	C915	QCT25CH-150	CAPACITOR
	C916	QAT3120-200	TRIMMER CAPACITOR,COLOR BURST
	C917	QCT25CH-5R0	CAPACITOR
	C918	QCVB1CN-103	CAPACITOR
	C919	QETC0JM-227	E CAPACITOR
	C921	QCBB1HJ-331	CAPACITOR
	C922	QFN31HJ-222	M CAPACITOR
	C923	QETC1HM-105	E CAPACITOR
	C924	QCVB1CN-103	CAPACITOR
	C925	QCSB1HJ-220	CAPACITOR
	C928	QCXB1CM-152	CAPACITOR
	C932	QETC1HM-335	E CAPACITOR
	C941	QCBB1HJ-101	CAPACITOR
	L901	PU48530-101K	COIL
	L902	PU59988-220JY	COIL
	L903	PU59988-8R2JY	COIL
	L904	PU59988-150J	COIL
	L905	PU59988-220JY	COIL
	L906	PU59988-220JY	COIL
	L907	PU48530-101K	COIL
⚠	CF901	PU60086	RESONATOR
⚠	X901	PU60908	CRYSTAL RESONATOR
	CN901	PU60417-6	CONNECTOR
		-OTHERS SECTION-	
	R301	QVPA606-332Z	V RESISTOR,EE BALANCE
	R302	QVPA606-473Z	V RESISTOR,EE LEVEL
	R303	QRD161J-221	RESISTOR
	R304	QVPA606-683Z	V RESISTOR,BIAS
	R305	QRD161J-100	RESISTOR
	CL1	PU59311-3	WIRE CLAMP
	CL2	PU59311-4	WIRE CLAMP
	HD1	PU60521	PWB HOLDER(A), X2
	HD2	PU60522	PWB HOLDER(B), X2
	SLD1	PQ42995-1-1	SHIELD CASE

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	SPC1	PU60010-2	SPACER
		-VIDEO SUB SECTION-	
	Q502	DTC144WS	TRANSISTOR
	Q512	DTC144WS	TRANSISTOR
	D501	1SS133	DIODE
		OR MA165	DIODE
	D502	1SS133	DIODE
		OR MA165	DIODE
	D503	1SS133	DIODE
		OR MA165	DIODE
	D505	1SS133	DIODE
		OR MA165	DIODE
	R501	QRD161J-103	RESISTOR
	R502	QRD161J-562	RESISTOR
	R507	QRD161J-222	RESISTOR
	R524	QRD161J-393	RESISTOR
	C511	QCVB1CN-103	CAPACITOR
	C517	QCVB1CN-103	CAPACITOR
	C521	QETC1CM-106	E CAPACITOR
	C522	QETC1HM-105	E CAPACITOR
	C523	QETC1CM-106	E CAPACITOR
	C526	QCVB1CN-103	CAPACITOR
	L503	PU48530-101K	COIL
	L504	PU48530-101K	COIL
	CN502	PU58844-2R	CONNECTOR

AUDIO/CTL HEAD BOARD ASSEMBLY <12>

	PWB1	PB40046-01-02	A/C HEAD BOARD
	CN1	PU58844-104	CAP HOUSING
	CN2	PU58844-103	CAP HOUSING

TIMER BOARD ASSEMBLY <20>

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA	PRK29002A	TIMER BOARD ASSY
	IC1	UPD75P218C-D40	IC
		UPD75218CW-D40	IC
	IC2	IC-PST523H-2	IC
	Q1	2SC1740S(RS)	TRANSISTOR
		OR 2SC3311A(RS)	TRANSISTOR
		OR 2SC536SPA(FG)	TRANSISTOR
	Q2	DTC144ES	TRANSISTOR
	Q91	2SC1740S(RS)	TRANSISTOR
	Q92	2SC1740S	TRANSISTOR
	D1	RD9.1ES-T1B2	ZENER DIODE
	D2	1SS133	DIODE
	D3	1SS133	DIODE
	D4	11ES2	DIODE
	D5	11ES2	DIODE
	D6	1SS133	DIODE
	D7	1SS133	DIODE
	D8	1SS133	DIODE
	D33	1SS133	DIODE
	D35	1SS133	DIODE
		OR MA165	DIODE
	D36	1SS133	DIODE
		OR MA165	DIODE
	D37	1SS133	DIODE
		OR MA165	DIODE
	D38	1SS133	DIODE
		OR MA165	DIODE
	D91	1SS133	DIODE
	D92	1SS133	DIODE
	D93	1SS133	DIODE
	R1	QRD161J-103	RESISTOR
	R4	QRD161J-682	RESISTOR
	R5	QRD161J-333	RESISTOR
	R6	QRD161J-333	RESISTOR
	R7	QRD161J-102	RESISTOR
	R8	QRD161J-103	RESISTOR
	R9	QRD161J-103	RESISTOR
	R10	QRD161J-103	RESISTOR
	R11	QRD161J-103	RESISTOR
	R12	QRD161J-333	RESISTOR
	R13	QRD161J-271	RESISTOR

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	R14	QRD161J-271	RESISTOR
	R15	QRD161J-103	RESISTOR
	R16	QRD161J-103	RESISTOR
	R17	QRD161J-472	RESISTOR
	R25	QRD161J-103	RESISTOR
	R26	QRD161J-103	RESISTOR
	R30	QRD161J-224	RESISTOR
	R32	QRD161J-271	RESISTOR
	R33	QRD161J-271	RESISTOR
	R40	QRD161J-271	RESISTOR
	R41	QRD161J-103	RESISTOR
	R42	QRD161J-561	RESISTOR
	R43	QRD161J-472	RESISTOR
	R44	QRD161J-472	RESISTOR
	R45	QRD161J-472	RESISTOR
	R49	QRD161J-271	RESISTOR
	R50	QRD161J-103	RESISTOR
	R51	QRD161J-103	RESISTOR
	R52	QRD161J-103	RESISTOR
	R53	QRD161J-472	RESISTOR
	R54	QRD161J-472	RESISTOR
	R55	QRD161J-472	RESISTOR
	R56	QRD161J-472	RESISTOR
	R57	QRD161J-472	RESISTOR
	R58	QRD161J-472	RESISTOR
	R60	QRD161J-472	RESISTOR
	R61	QRD161J-333	RESISTOR
	R62	QRD161J-103	RESISTOR
	R63	QRD161J-472	RESISTOR
	R64	QRD161J-472	RESISTOR
	R65	QRD161J-472	RESISTOR
	R90	QRD161J-472	RESISTOR
	R91	QRD161J-471	RESISTOR
	R92	QRD161J-683	RESISTOR
	R93	QRD161J-101	RESISTOR
	R94	QRD161J-103	RESISTOR
	R95	QRD161J-823	RESISTOR
	R96	QRD161J-823	RESISTOR
	R97	QRD161J-102	RESISTOR
	R98	QRD161J-473	RESISTOR
	R99	QRD161J-473	RESISTOR
	R100	QRD161J-102	RESISTOR
	RA1	QRB047J-333	RESISTOR ARRAY
		OR QRB049J-333	RARRAY
	RA2	QRB047J-104	NETWORK RESISTOR
		OR QRB049J-104	NETWORK RESISTOR
	RA3	QRB077J-104	RESISTOR ARRAY
		OR QRB079J-104	NETWORK RESISTOR

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	C3	QCVB1CN-103	CAPACITOR
	C4	QER61CM-106	E CAPACITOR
	C5	PU60676-104	E CAPACITOR
		OR QEA40HZ-104	E CAPACITOR
	C6	QAT3120-200	TRIM CAP
	C7	QCSB1HJ-120	CAPACITOR
	C11	QER61CM-106	E CAPACITOR
	C13	QCVB1CM-103	CAPACITOR
	C15	QCBB1HJ-101	CAPACITOR
	C16	QCBB1HJ-101	CAPACITOR
	C17	QCF11HP-473	CAPACITOR
	C18	QER61CM-106	E CAPACITOR
	C19	QER61CM-106	E CAPACITOR
	C21	QCVB1CN-103	CAPACITOR
	C22	QCBB1HJ-151	CAPACITOR
	C23	QCBB1HJ-151	CAPACITOR
	C91	QFN31HJ-103	M CAPACITOR
	C92	QER61CM-106	E CAPACITOR
	C93	QFN31HJ-474	M CAPACITOR
	C94	QER61CM-476	E CAPACITOR
	C95	QFN31HJ-104	M CAPACITOR
⚠	X1	PU60226-4	CRYSTAL RESONATOR
⚠	K1	PU60281-5	FERRATE BEADS
⚠	K2	PU60281-5	FERRATE BEADS
	CN1	PU60417-108	CONNECTOR
	CN2	PU60417-114	CONNECTOR
	CN3	PU60417-106	CONNECTOR
	CN4	PU60417-103	CONNECTOR
	CN5	PU59555-7	CONNECTOR
	CN6	PU60417-108	CONNECTOR
	CN7	PU58844-2R	CONNECTOR
	CN8	PU58844-2	CONNECTOR
⚠	CP1	ICP-F10	CIRCUIT PROTECTOR

* * *

SW/DISPLAY BOARD ASSEMBLY <28>

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA	PB10695E	SW/DISPLAY BOARD ASSY
	IC101	MSC7112-01SS	IC

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	Q101	2SK658	FE TRANSISTOR
	Q105	DTC124ES	TRANSISTOR
	Q106	2SC3199(G)	TRANSISTOR
		OR 2SC3311A(RS)	TRANSISTOR
		OR 2SC536SPA(FG)	TRANSISTOR
		OR 2SC1740S(RS)	TRANSISTOR
	Q107	2SC3199(G)	TRANSISTOR
		OR 2SC3311A(RS)	TRANSISTOR
		OR 2SC536SPA(FG)	TRANSISTOR
		OR 2SC1740S(RS)	TRANSISTOR
	D102	RD3.6ES-T1B1	ZENER DIODE
	D106	SLH-34MC3F	LE DIODE,S-VHS
	D107	SLH-34MC3F	LE DIODE,AT TRACK
	D110	1SS133	DIODE
		OR MA165	DIODE
	D111	1SS133	DIODE
		OR MA165	DIODE
	D112	1SS133	DIODE
		OR MA165	DIODE
	D114	1SS133	DIODE
		OR MA165	DIODE
	D115	1SS133	DIODE
		OR MA165	DIODE
	D117	1SS133	DIODE
		OR MA165	DIODE
	D119	1SS133	DIODE
		OR MA165	DIODE
	D120	1SS133	DIODE
		OR MA165	DIODE
	D121	1SS133	DIODE
		OR MA165	DIODE
	D123	1SS133	DIODE
		OR MA165	DIODE
	D124	1SS133	DIODE
		OR MA165	DIODE
	D125	1SS133	DIODE
		OR MA165	DIODE
	D223	1SS132	DIODE
	D229	1SS133	DIODE
	R101	QRD161J-102	RESISTOR
	R102	QRD161J-102	RESISTOR
	R103	QRD161J-222	RESISTOR
	R104	QRD161J-273	RESISTOR
	R105	QRD161J-333	RESISTOR
	R107	QRD161J-102	RESISTOR
	R112	QRD161J-121	RESISTOR
	R113	QRD161J-121	RESISTOR
	R115	QRD161J-472	RESISTOR
	R116	QRD161J-472	RESISTOR
	R117	QRD161J-472	RESISTOR

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	C101	QCBB1HJ-101	CAPACITOR
	C102	QETC1HM-104	E CAPACITOR
	C103	QETC0JM-107	E CAPACITOR
	C104	QCVB1CN-103	CAPACITOR
	C105	QER61VM-106	E CAPACITOR
	C115	QCSB1HJ-330	CAPACITOR
	C116	QCSB1HJ-330	CAPACITOR
	C117	QCF11HP-473	CAPACITOR
	L101	PU59152-221J	COIL
	S13	PESW0525-02Z	TACT SWITCH,MIX
		OR PU60392-2-2	TACT SWITCH
		OR PU60975-2Z	TACT SWITCH
	S14	PESW0525-02Z	TACT SWITCH,SIMUL
		OR PU60392-2-2	TACT SWITCH
		OR PU60975-2Z	TACT SWITCH
	S15	PESW0525-02Z	TACT SWITCH,A DUB
		OR PU60392-2-2	TACT SWITCH
		OR PU60975-2Z	TACT SWITCH
	S16	PESW0525-02Z	TACT SWITCH,INSERT
		OR PU60392-2-2	TACT SWITCH
		OR PU60975-2Z	TACT SWITCH
	S28	PESW0525-02Z	TACT SWITCH,DISP OFF
		OR PU60975-2Z	TACT SWITCH
		OR PU60392-2-2	TACT SWITCH
	S34	PESW0525-02Z	TACT SWITCH,S-VHS
		OR PU60392-2-2	TACT SWITCH
		OR PU60975-2Z	TACT SWITCH
	S35	PESW0525-02Z	TACT SWITCH,S/AV
		OR PU60392-2-2	TACT SWITCH
		OR PU60975-2Z	TACT SWITCH
	S404	PESW0635	SLIDE SWITCH,WA REC
	S405	PESW0559-03	SLIDE SWITCH,REPEAT
	S406	PESW0635	SLIDE SWITCH,AV IN/OUT SEL
	FDP1	PEDP0079	FLUORESCENT DISPLAY PANEL
	HD1	PQM30038-2-2	LED HOLDER, X2
	HD2	PQ34413	FDP HOLDER(L)
	HD3	PQ34414	FDP HOLDER(R)
	CN8	PU60417-5	CONNECTOR
	CN10	PU60417-108	CONNECTOR
	CN11	PU60417-114	CONNECTOR
	CN12	PU60417-5	CONNECTOR
	CN13	PU59555-3	CONNECTOR
	CN14	PU58844-2	CONNECTOR
	CN15	PEMC0878-010	CONNECTOR

* * *

IFR BOARD ASSEMBLY <34>

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA	PB20598L2	IFR BOARD ASSY
	IC1	GP1U541X	IR DETECT UNIT
		OR GP1U801X	IR DETECT UNIT
	CN10	PU59555-3	CONNECTOR

JACK BOARD ASSEMBLY <36>

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA	PB30167Z	JACK BOARD ASSY
	JA1	PGZ00440	BNC CONNECTOR
	JA2	PGZ00440	BNC CONNECTOR
	CN1	PU58844-107	CONNECTOR

SW/JACK BOARD ASSEMBLY <37>

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA	PB20598L	SW/JACK BOARD ASSY
	Q1	DTC114ES	TRANSISTOR
	D1	SLR-55VC3F	LE DIODE, OPERATE
	D2	1SS133	DIODE
		OR MA165	DIODE
	D5	1SS133	DIODE
		OR MA165	DIODE
	D6	1SS133	DIODE
		OR MA165	DIODE
	R1	PERE0483-02	V RESISTOR
	R7	PERE0513	V RESISTOR, REC BALANCE
	R8	PERE0512	V RESISTOR
	R9	PERE0514	V RESISTOR, MIC MIX
	R10	QRD161J-221	RESISTOR
	R11	QRD161J-103	RESISTOR
	C1	QCFB1EZ-223	CAPACITOR
	C2	QCFB1EZ-223	CAPACITOR
	C3	QCBB1HJ-681	CAPACITOR
	C4	QCBB1HJ-681	CAPACITOR
	L1	PU59152-120J	COIL
	L2	PU59152-120J	COIL
	L3	PU59152-6R8J	COIL
	L4	PU59152-6R8J	COIL
	L5	PU59152-2R7J	COIL
	L6	PU59152-2R7J	COIL
	S1	PU57551	TACT SWITCH,OPERATE
		OR PU53598-2	TACT SWITCH
	K1	PU60281-5	FERRATE BEADS
	HD1	PQM30038-1-2	LED HOLDER, FOR D1(LED)
	JA1	PU60664	MINI JACK, H.PHONE
	JA2	PU60664-3	MINI JACK, MIC
	JA3	PU60664-7	MINI JACK, PAUSE-IN
	JA4	PEMC0762-01-02	AV JACK
	CN1	PU58844-3	CONNECTOR
	CN2	PU60417-6	CONNECTOR
	CN3	PU58844-5	CONNECTOR
	CN4	PU58844-2	CONNECTOR
	CN5	PU58844-7	CONNECTOR
	CN6	PU58844-4	CONNECTOR
	CN7	PU60417-5	CONNECTOR
	CN9	PU58844-2	CONNECTOR

PAUSE TERMINAL BOARD ASSEMBLY <38>

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA	PRK30117A	PAUSE TERMINAL BOARD ASSY
	JA1	PU60664-8	MINI JACK
	CN1	PU58844-102	CONNECTOR

PRE AMP BOARD ASSEMBLY <42>

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA	PB20473A-02-CMS	PRE AMP BOARD ASSY
	IC1	TA8609F	IC
	Q1	2SC2778	TRANSISTOR
	Q2	2SC2778	TRANSISTOR
	Q3	2SC2778	TRANSISTOR
	Q4	2SC2778	TRANSISTOR
	Q5	2SC2778	TRANSISTOR
	Q6	2SC2778	TRANSISTOR
	Q7	2SC2778	TRANSISTOR
	Q8	2SC2778	TRANSISTOR
	Q9	2SC2412K	TRANSISTOR
	Q10	2SC2412K	TRANSISTOR
	Q11	DTA124EK	TRANSISTOR
	Q12	DTA124EK	TRANSISTOR
	Q13	DTC144EK	TRANSISTOR
	Q14	DTC144EK	TRANSISTOR
	D1	DAP202K	DIODE
	D2	DAP202K-X	DIODE
	R1	QRSA08J-100YN	RESISTOR
	R2	QRSA08J-272YN	RESISTOR
	R3	QRSA08J-100YN	RESISTOR
	R4	QRSA08J-272YN	RESISTOR
	R5	QRSA08J-100YN	RESISTOR
	R6	QRSA08J-272YN	RESISTOR
	R7	QRSA08J-100YN	RESISTOR
	R8	QRSA08J-272YN	RESISTOR
	R9	QRSA08J-103YN	RESISTOR
	R10	QRSA08J-0R0Y	RESISTOR
	R11	NVP1301-152NZ	V RESISTOR
	R12	QRSA08J-471YN	RESISTOR
	R13	QRSA08J-391YN	RESISTOR
	R14	NVP1301-152N	V RESISTOR
	R15	NVP1301-152N	V RESISTOR
	R16	QRSA08J-103YN	RESISTOR
	R17	NVP1301-152N	V RESISTOR
	R18	QRSA08J-391YN	RESISTOR
	R19	QRSA08J-122YN	RESISTOR
	R20	QRSA08J-122YN	RESISTOR
	R21	QRSA08J-122YN	RESISTOR
	R22	QRSA08J-122YN	RESISTOR
	R23	QRSA08J-561YN	RESISTOR
	R24	QRSA08J-102YN	RESISTOR
	R25	QRSA08J-332YN	RESISTOR
	R26	QRSA08J-102YN	RESISTOR
	R27	QRSA08J-332YN	RESISTOR
	C1	QCFA1HZ-103Z	CAPASITOR
	C2	QCFA1HZ-103	CAPACITOR
	C3	QCFA1HZ-103Z	CAPASITOR
	C4	QCFA1HZ-103	CAPACITOR
	C6	QCFA1HZ-103	CAPACITOR
	C7	QCFA1HZ-103Z	CAPASITOR
	C8	QCFA1HZ-103	CAPACITOR
	C9	QCFA1HZ-103Z	CAPASITOR
	C10	QCFA1HZ-103	CAPACITOR
	C11	OR PECA0779-200X	TRIMMER CAPACITOR(CHIP)
	C12	OR PECA0779-300X	TRIMMER CAPACITOR
	C13	OR PECA0779-200X	TRIMMER CAPACITOR(CHIP)
	C14	OR PECA0779-200X	TRIMMER CAPACITOR(CHIP)
	C15	QCFA1HZ-103Z	CAPASITOR
	C16	QCFA1HZ-103	CAPACITOR
	C17	QER41HM-105	E CAPASITOR
	C18	QCFA1HZ-103	CAPACITOR
	C19	QER41HM-105	E CAPASITOR
	C20	QER41HM-105	E CAPACITOR
	C21	QCSA1HJ-101Z	CAPASITOR
	C22	QER41HM-105	E CAPACITOR
	C23	QCFA1HZ-103Z	CAPASITOR
	C24	QER40JM-476	E CAPACITOR
	C25	QCFA1HZ-103Z	CAPASITOR
	C30	QCFA1HZ-103	CAPACITOR
	C31	QCFA1HZ-103Z	CAPASITOR
	C32	QCFA1HZ-103	CAPACITOR
	C33	QCFA1HZ-103Z	CAPASITOR
	C34	QCFA1HZ-103	CAPACITOR
	L1	PU59988-100JY	COIL
	L2	PU59988-120JY	COIL
	L3	PU59988-100JY	COIL
	L4	PU59988-120JY	COIL
	L5	PU48530-101K	COIL
	SLD2	PQ33468-1-4	SHIELD COVER(1)
	TP1	PU56008	TEST-PIN
	CN2	PU58844-3	CAP HOUSING

REC AMP BOARD ASSEMBLY <43>

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA	PB10404G	REC AMP BOARD ASSY
	CL1	PU59311-3	WIRE CLAMP
	CL2	PU56729-2	WIRE CLAMP
	SLD1	PQ21044-1-1	SHIELD FRAME
	SLD2	PQ21045-1-2	SHIELD CASE
	SLD3	PQ33421-1-1	SHIELD PLATE
	SPC1	PQM30029-182	SPACER

-VIDEO REC SECTION-

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	TP	PU60142-2	CONNECTOR
	IC1	TA8733F	IC
	IC2	JCP0023	IC
	Q2	2SC4081(QRS)	TRANSISTOR
	Q4	DTA124EU	TRANSISTOR
	Q5	DTA124EU	TRANSISTOR
	Q6	DTC144EU	TRANSISTOR
	Q7	2SC4081(QRS)	TRANSISTOR
	Q8	2SA1576(QR)	TRANSISTOR
	Q9	2SC4081(QRS)	TRANSISTOR
	Q10	2SC4081(QRS)	TRANSISTOR
	Q13	2SA1576(QR)	TRANSISTOR
	Q14	2SC4081(QRS)	TRANSISTOR
	Q15	2SA1576(QR)	TRANSISTOR
	Q16	DTC144EU	TRANSISTOR
	Q17	2SC4081(QRS)	TRANSISTOR
	Q18	2SC4081(QRS)	TRANSISTOR
	Q19	2SA1577(QR)	TRANSISTOR
	Q20	DTC124EU	TRANSISTOR
	Q21	2SA1577(QR)	TRANSISTOR
	Q23	2SC4081(QRS)	TRANSISTOR
	Q24	2SC4081(QRS)	TRANSISTOR
	Q25	DTC114EU	TRANSISTOR
	Q29	2SA1267(YG)JK	TRANSISTOR
		OR 2SA933S(RS)	TRANSISTOR
	Q30	DTA124EU	TRANSISTOR
	Q31	DTC144WU	TRANSISTOR
	D1	DAN202U	DIODE
	D2	DAN202U	DIODE
	D3	DAN202U	DIODE
	D4	DAN202U	DIODE
	D5	DAN202U	DIODE
	D6	DAN202U	DIODE
	R1	QRSA08J-122YN	RESISTOR
	R2	QRSA08J-221YN	RESISTOR
	R3	QRSA08J-102YN	RESISTOR
	R4	QRSA08J-122YN	RESISTOR
	R5	QRSA08J-221YN	RESISTOR
	R6	QRSA08J-102YN	RESISTOR
	R7	QRSA08J-823YN	RESISTOR
	R9	QRSA08J-121YN	RESISTOR
	R10	QRSA08J-101YN	RESISTOR
	R11	QRSA08J-471YN	RESISTOR
	R12	QRSA08J-275YN	RESISTOR
	R17	NRVA62D-154N	RESISTOR
	R18	QRSA08F-1103YN	RESISTOR
	R19	QRSA08F-1433YN	RESISTOR
	R20	QRSA08F-1783YN	RESISTOR
	R21	NRVA62D-154N	RESISTOR
	R22	NRVA62D-124N	RESISTOR
	R24	NRVA02D-7872AY	RESISTOR
	R25	QRSA08J-623YN	RESISTOR
	R26	QRSA08J-101YN	RESISTOR
	R27	QRSA08J-471YN	RESISTOR
	R29	QRSA08J-223YN	RESISTOR
	R30	QRSA08J-153YN	RESISTOR
	R31	QRSA08J-102YN	RESISTOR
	R32	QRSA08J-102YN	RESISTOR
	R33	QRSA08J-391YN	RESISTOR
	R34	QRSA08J-103YN	RESISTOR
	R35	QVPA603-222	V RESISTOR,S-SP VIDEO EQ
	R36	QVPA603-152	V RESISTOR,S-LP VIDEO EQ
	R39	QRSA08J-102YN	RESISTOR
	R40	QRSA08J-821YN	RESISTOR
	R41	QRSA08J-332YN	RESISTOR
	R42	QRSA08J-561YN	RESISTOR
	R43	QRSA08J-362YN	RESISTOR
	R44	QRSA08J-391YN	RESISTOR
	R45	QRSA08J-182YN	RESISTOR
	R46	QRSA08J-223YN	RESISTOR
	R47	QRSA08J-151YN	RESISTOR
	R48	QRSA08J-182YN	RESISTOR
	R49	QRSA08J-183YN	RESISTOR
	R50	QRSA08J-331YN	RESISTOR
	R51	QRSA08J-102YN	RESISTOR
	R52	QRSA08J-391YN	RESISTOR
	R53	QRSA08J-102YN	RESISTOR
	R57	QRSA08J-561YN	RESISTOR
	R58	QRSA08J-182YN	RESISTOR
	R59	QRSA08J-681YN	RESISTOR
	R60	QRSA08J-102YN	RESISTOR
	R61	QRSA08J-122YN	RESISTOR
	R62	QRSA08J-222YN	RESISTOR
	R63	QRSA08J-102YN	RESISTOR
	R64	QRSA08J-101YN	RESISTOR
	R65	QVPA603-682	V RESISTOR,N-SP VIDEO EQ
	R66	QVPA603-332	V RESISTOR,N-LP VIDEO EQ
	R69	QRSA08J-102YN	RESISTOR
	R70	QRSA08J-222YN	RESISTOR
	R71	QRSA08J-273YN	RESISTOR
	R72	QRSA08J-393YN	RESISTOR
	R73	QRSA08J-222YN	RESISTOR
	R74	QRSA08J-103YN	RESISTOR
	R75	QRSA08J-103YN	RESISTOR
	R76	QRSA08J-393YN	RESISTOR
	R77	QRSA08J-222YN	RESISTOR
	R80	QRSA08J-102YN	RESISTOR
	R81	QRSA08J-102YN	RESISTOR
	R82	QRSA08J-102YN	RESISTOR
	R83	QRSA08J-102YN	RESISTOR
	R84	QRSA08J-390YN	RESISTOR
	R85	QRSA08J-103YN	RESISTOR
	R86	QRSA08J-182YN	RESISTOR
	R87	QRSA08J-391YN	RESISTOR
	R90	QVPA603-332	V RESISTOR,LP REC COL
	R91	QVPA603-332	V RESISTOR,SP REC COL
	R92	QRSA08J-563YN	RESISTOR
	R93	QRSA08J-153YN	RESISTOR
	R94	QRSA08J-102YN	RESISTOR
	R95	QRSA08J-393YN	RESISTOR
	R96	QRSA08J-183YN	RESISTOR
	R97	QRSA08J-332YN	RESISTOR
	R98	QRSA08J-102YN	RESISTOR
	R107	QRD161J-102	RESISTOR
	R109	QRSA08J-682YN	RESISTOR
	C1	QCFA1HZ-103	CAPACITOR
	C2	QCFA1HZ-103	CAPACITOR
	C3	QCFA1HZ-103	CAPACITOR
	C4	QCSA1HJ-121	CAPACITOR
	C5	QCSA1HJ-331	CAPACITOR
	C6	QCSA1HJ-121	CAPACITOR
	C7	QCFA1HZ-103	CAPACITOR
	C8	QCSA1HJ-560	CAPACITOR
	C9	QCSA1HJ-271	CAPACITOR
	C10	QCSA1HJ-151	CAPACITOR
	C11	QCFA1HZ-103	CAPACITOR
	C12	QER40JM-476	E CAPACITOR
	C13	QCFA1HZ-103	CAPACITOR
	C14	QER41HM-104	E CAPACITOR
	C15	QFN41HJ-223	M CAPACITOR
	C16	QFN31HJ-223	M CAPACITOR
	C17	QCFA1EZ-104	CAPACITOR
	C18	QCSA1HJ-820	CAPACITOR
	C19	QCFA1EZ-104	CAPACITOR
	C20	QCFA1HZ-103	CAPACITOR
	C21	QCFA1EZ-104	CAPACITOR
	C22	QFN41HJ-223	M CAPACITOR
	C23	QFN41HJ-223	M CAPACITOR
	C24	QCFA1EZ-104	CAPACITOR
	C26	QCFA1HZ-103	CAPACITOR
	C27	QEK41CM-107	E CAPACITOR
	C28	QETA0JM-476	E CAPACITOR
	C29	QCFA1HZ-103	CAPACITOR
	C30	QCSA1HJ-680	CAPACITOR
	C31	QCFA1HZ-103	CAPACITOR
	C32	QCSA1HJ-180	CAPACITOR
	C33	QCFA1HZ-103	CAPACITOR
	C34	QCSA1HJ-390	CAPACITOR
	C38	QCSA1HJ-120	CAPACITOR
	C39	QCSA1HJ-120	CAPACITOR
	C40	QCSA1HJ-390	CAPACITOR
	C42	QCFA1HZ-103	CAPACITOR
	C43	QCFA1HZ-103	CAPACITOR
	C44	QCSA1HJ-560	CAPACITOR
	C45	QCSA1HJ-560	CAPACITOR
	C48	QCSA1HJ-150	CAPACITOR
	C49	QCSA1HJ-120	CAPACITOR
	C50	QCSA1HJ-6R0	CAPACITOR
	C51	QCSA1HJ-510	CAPACITOR
	C52	QCFA1HZ-103	CAPACITOR
	C54	QCFA1HZ-103	CAPACITOR
	C55	QCFA1HZ-103	CAPACITOR
	C57	QCSA1HJ-102	CAPACITOR
	C58	QCFA1EZ-104	CAPACITOR
	C61	QCFA1HZ-103	CAPACITOR
	C62	QCFA1HZ-103	CAPACITOR
	C63	QCFA1HZ-103	CAPACITOR
	C64	QCFA1HZ-103	CAPACITOR
	C65	QCFA1HZ-103	CAPACITOR
	C66	QCSA1HJ-130	CAPACITOR
	C67	QCFA1EZ-104	CAPACITOR
	C69	QEP41HM-105	NP E CAPACITOR
	C75	QCBB1HJ-101	CAPACITOR
	L1	PU59988-181J	COIL
	L2	PU59988-330J	COIL
	L3	PU59988-820J	COIL
	L4	PU59988-101J	COIL
	L5	PU59988-330J	COIL

#△	REF NO.	PART NO.	PART NAME, DESCRIPTION
	L6	PU48530-101K	COIL
	L7	PU59988-5R6J	COIL
	L8	PU48530-101K	COIL
	L9	PU59988-560J	COIL
	L10	PU59988-150J	COIL
	L11	PU59988-390J	COIL
	L12	PU59988-221J	COIL
	L13	PU59988-100J	COIL
	L14	PU59988-220JY	COIL
	L15	PU59988-270J	COIL
	L16	PU59988-820J	COIL
	L17	PU59988-180J	COIL
	L18	PU59988-180J	COIL
	L19	PU48530-101K	COIL
	L20	PU59988-680J	COIL
	L22	PU59988-181J	COIL
	L23	PU59988-181J	COIL
	CN1	PU56258-18	CONNECTOR
	CN2	PU58844-3R	CONNECTOR
	CN3	PU58844-3	CONNECTOR
	CN4	PU60417-4	CONNECTOR
	CN5	PU58844-8Y	CONNECTOR
	CN6	PU60417-3	CONNECTOR

-FMA PRE/REC SECTION-

#△	REF NO.	PART NO.	PART NAME, DESCRIPTION
	IC201	AN3380NK	IC
	Q201	DTC124TU	CHIP D.TR.
	Q202	DTC124TU	CHIP D.TR.
	Q203	DTC114EU	TRANSISTOR
	Q204	2SC4081(QRS)	TRANSISTOR
	Q205	DTA114EU	TRANSISTOR
	Q206	DTC114EU	TRANSISTOR
	D203	1SS133	DIODE
	D204	1SS133	DIODE
	R201	NRVA62D-273N	RESISTOR
	R202	QRSA08J-101YN	RESISTOR
	R203	QRSA08J-101YN	RESISTOR
	R204	QRSA08J-274YN	RESISTOR
	R205	QRSA08J-102YN	RESISTOR
	R206	QRSA08J-332YN	RESISTOR
	R207	QRSA08J-101YN	RESISTOR
	R208	QRSA08J-332YN	RESISTOR
	R210	QRSA08J-103YN	RESISTOR
	R211	QRSA08J-152YN	RESISTOR
	R212	QRSA08J-222YN	RESISTOR
	R213	QRSA08J-102YN	RESISTOR
	R214	QRSA08J-560YN	RESISTOR
	R215	QRSA08J-560YN	RESISTOR
	R216	QVZ3521-331Z	V RESISTOR,AUDIO REC FM LEVEL
	R217	QRSA08J-153YN	RESISTOR
	C201	QCFA1EZ-104	CAPACITOR
	C202	QCSA1HJ-391	CAPACITOR
	C203	QCSA1HJ-561	CAPACITOR
	C204	QCSA1HJ-102	CAPACITOR
	C205	QCSA1HJ-561	CAPACITOR
	C206	QCSA1HJ-102	CAPACITOR
	C207	QCFA1CZ-224	CAPACITOR
	C208	QCSA1HJ-391	CAPACITOR
	C209	QEK60JM-107	E CAPACITOR
	C210	QCYA1HJ-103	CAPACITOR
	C211	QCYA1HJ-103	CAPACITOR
	C214	QCSA1HJ-330	CAPACITOR
	C215	QCSA1HJ-102	CAPACITOR
	C216	QCYA1HJ-103	CAPACITOR
	C217	QCSA1HJ-102	CAPACITOR
	C218	QCSA1HJ-102	CAPACITOR
	C219	QCYA1HJ-103	CAPACITOR
	C220	QEK61EM-476	E CAPACITOR
	C221	QCYA1HJ-103	CAPACITOR
	C224	QCFA1CZ-224	CAPACITOR
	L201	PU48530-101K	COIL
	BPF201	PELN0374	BAND PASS FILTER
	TP53	PU60142-2	TEST PIN,X2(TP53,TP54)
	CN201	PU58844-8	CONNECTOR

* * *

FLYING ERASE BOARD ASSEMBLY <46>

#△	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA	PB30104B	FLYING ERASE BOARD ASSY
	Q1	2SA933S	TRANSISTOR
	Q2	2SC1741S(QR)	TRANSISTOR
	Q3	2SA933S(Q)	TRANSISTOR
	Q4	2SD639R	TRANSISTOR
	Q5	2SD639R	TRANSISTOR
	D1	UZ8.2BSC	ZENER DIODE
	D2	1SS133	DIODE
	OR	MA165	DIODE
	R1	QRD161J-473	RESISTOR
	R2	QRD161J-472	RESISTOR
	R3	QRD161J-222	RESISTOR
	R4	QRD161J-473	RESISTOR
	R5	QRD161J-223	RESISTOR
	R6	QRD161J-104	RESISTOR
	R7	QRD161J-121	RESISTOR
	R8	QRD161J-104	RESISTOR
	R9	QRD161J-121	RESISTOR
	R10	QRD161J-101	RESISTOR
	C1	QCVB1CN-103	CAPACITOR
	C2	QCC11EJ-123	CAPACITOR
	C3	QCSB1HJ-560	CAPACITOR
	C4	QCBB1HJ-820	CAPACITOR
	C6	QCBB1HJ-820	CAPACITOR
	C8	QCT25UJ-181	CAPACITOR
	C9	QCT25UJ-330	CAPACITOR
	L1	PU48530-560J	COIL
	L2	PU48530-3R3K	COIL
	L3	PU48530-3R3K	COIL
	L4	PU59152-101J	COIL
△	T1	PU56175	SWITCH TRANS
	SLD1	PU61041	SHIELD CASE
	SLD2	PU61042	SHIELD COVER
	SLD3	PU61043	SHIELD PLATE
	CN1	PU58844-3	CONNECTOR
	CN2	PU58844-104	CONNECTOR

* * *

DECK TERMINAL BOARD ASSEMBLY <51>

#△	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA	PB10481A-01	DECK TERMINAL BOARD ASSY
	Q1	PU60625	END SENSOR
	R3	QRD161J-331	RESISTOR
	R4	QRD161J-331	RESISTOR
	R5	QRD161J-331	RESISTOR
	R8	NTH5D473KB	THERMISTOR
	OR	ERT-D2ZHK473S	NEGA THERMISTOR
	OR	NTH5D473KA	RESISTOR
	C1	QCVB1CM-103	CAPACITOR
	PS1	PS5705HR	PH INTERRUPTER
	PS2	PS5705HR	PH INTERRUPTER
△	TH601	PESC1041	POSITIVE THERMISTOR
	CN1	PEMC0722-018	WIRE TRAP
	OR	PEMC0753-018	WIRE TRAP
	CN2	PU60642	7PIN CONNECTOR
	CN3	PU60640	4PIN CONNECTOR

* * *

LOADING MDA BOARD ASSEMBLY <55>

#△	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA2	PB30150A	LOADING MDA BOARD ASSY
	IC1	BA6418N	IC
	OR	XRA6418N	IC
	C1	QETA1CM-227	E CAPACITOR
	C3	QETA1HM-105	E CAPACITOR
	CN1	PU59555-104	CAP HOUSING
	CN2	PU58844-2	CAP HOUSING

* * *

CASSETTE HOUSING BOARD ASSEMBLY <56>

#△	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWB1	PB40061	CASSETTE HOUSING BOARD
	Q2	PN268VI	PHOTO TRANSISTOR
	D1	UZ5.1BSB	ZENER DIODE
	OR	RD5.1ESB2	ZENER DIODE
	R1	QRD162J-473	RESISTOR
	R2	QRD182J-681	RESISTOR
	R3	QRD122J-102S	RESISTOR
	C1	QCC11EJ-103	CAPACITOR
	PHS3	PU60629	CASSETTE SENSOR
	TH1	ERT-D2FHJ503S	THERMISTOR
	OR	ERT-D2FHK503S	THERMISTOR
	OR	PESC1084	NEGA THERMISTOR
	CN2	PU60639	4PIN SOCKET
	OR	PEMC0971	4PIN SOCKET

* * *

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION

PRIMARY BOARD ASSEMBLY <60>

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA	PB20555F	PRIMARY BOARD ASSY
⚠	HD1	PU57505	FUSE CLIP, X2
	J4	PU60894-102	TERMINAL
	J5	PU60894-102	TERMINAL
	J6	PU60894-102	TERMINAL
⚠	F1	QMF51E2-1R25	FUSE
⚠	OR	QMF51E2-1R25J1	FUSE

* * *

UPPER DRUM 1 BOARD ASSEMBLY <62>

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWB1	PDM3161	BOARD (UPPER DRUM),X2<62><63>

* * *

SOUND MENU BOARD ASSEMBLY <71>

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
	PWBA2	PB10703A2-02	SOUND MENU BOARD ASSY
	IC101	XRA15218	IC
	OR	BA15218	IC
	IC102	XRA15218	IC
	OR	BA15218	IC
	IC103	TDA3810	IC
	Q101	DTA144ES	TRANSISTOR
	Q102	DTA144ES	TRANSISTOR
	Q103	2SC1740S	TRANSISTOR
	OR	2SC3199-TJK	TRANSISTOR
	Q104	2SC1740S	TRANSISTOR
	OR	2SC3199-TJK	TRANSISTOR
	Q105	2SC1740S	TRANSISTOR
	OR	2SC3199-TJK	TRANSISTOR
	Q106	2SC1740S	TRANSISTOR
	OR	2SC3199-TJK	TRANSISTOR
	D101	1SS133	DIODE
	OR	MA165	DIODE
	D102	1SS133	DIODE
	OR	MA165	DIODE
	R101	QRD161J-473	RESISTOR
	R102	QRD161J-473	RESISTOR
	R103	QRD161J-334	RESISTOR
	R104	QRD161J-334	RESISTOR
	R105	QRD161J-472	RESISTOR
	R106	QRD161J-472	RESISTOR
	R107	QRD161J-562	RESISTOR
	R108	QRD161J-562	RESISTOR
	R109	QRD161J-103	RESISTOR
	R110	QRD161J-103	RESISTOR
	R111	QRD161J-103	RESISTOR
	R112	QRD161J-103	RESISTOR
	R113	QRD161J-122	RESISTOR
	R114	QRD161J-122	RESISTOR
	R115	QRD161J-331	RESISTOR
	R116	QRD161J-331	RESISTOR
	R117	QRD161J-472	RESISTOR
	R118	QRD161J-472	RESISTOR
	R119	QRD161J-473	RESISTOR
	R120	QRD161J-473	RESISTOR
	R121	QRD161J-331	RESISTOR
	R122	QRD161J-331	RESISTOR
	R123	QRD161J-122	RESISTOR
	R124	QRD161J-122	RESISTOR
	R125	QRD161J-472	RESISTOR
	R126	QRD161J-472	RESISTOR
	R127	QRD161J-472	RESISTOR
	R128	QRD161J-472	RESISTOR
	R129	QRD161J-103	RESISTOR
	R130	QRD161J-183	RESISTOR
	R131	QRD161J-183	RESISTOR
	R132	QRD161J-103	RESISTOR
	R133	QRD161J-163	RESISTOR
	R134	QRD161J-103	RESISTOR
	R135	QRD161J-823	RESISTOR
	R136	QRD161J-183	RESISTOR
	R137	QRD161J-203	RESISTOR
	R138	QRD161J-163	RESISTOR
	R139	QRD161J-223	RESISTOR
	R140	QRD161J-223	RESISTOR
	R141	QRD161J-113	RESISTOR
	C101	QFLC1HJ-682Z	M CAPACITOR
	C102	QFLC1HJ-682Z	M CAPACITOR
	C103	QCBB1HJ-102	CAPACITOR
	C104	QCBB1HJ-102	CAPACITOR
	C105	QETC1AM-476	E CAPACITOR
	C106	QETC1AM-476	E CAPACITOR
	C107	QETC1CM-106	E CAPACITOR
	C108	QETC1CM-106	E CAPACITOR
	C109	QETC1HM-225	E CAPACITOR
	C110	QETC1HM-225	E CAPACITOR
	C111	QETC1AM-107	E CAPACITOR
	C112	QETC1AM-107	E CAPACITOR
	C113	QENC1HM-225	NP E CAPACITOR
	C114	QENC1HM-225	NP E CAPACITOR
	C115	QETC1AM-107	E CAPACITOR
	C116	QCXB1CM-182	CAPACITOR
	C117	QETC1CM-476	E CAPACITOR
	C118	QETC1AM-476	E CAPACITOR
	C119	QETC1AM-476	E CAPACITOR
	C120	QETC1CM-476	E CAPACITOR
	C121	QCVB1CN-103	CAPACITOR
	C122	QFV71HJ-153	TF CAPACITOR
	C123	QFV71HJ-153	TF CAPACITOR
	C124	QFV71HJ-223	TF CAPACITOR
	C125	QFV71HJ-333	TF CAPACITOR
	C126	QCXB1CM-182	CAPACITOR
	CN101	PEMC0713-109	HOUSING

#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION